FIRST NATIONS WATER RIGHTS IN BRITISH COLUMBIA

A Historical Summary of the rights of the St. Mary's First Nation

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FIRST NATIONS WATER RIGHTS IN BRITISH COLUMBIA:

A Historical Summary of the rights of the St. Mary's First Nation

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Gary Robinson
Project Manager
Water Management Branch

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FIRST NATIONS WATER RIGHTS REPORT

BAND: St. Mary's First Nation

ADDRESS: RR 3, Site 15, Comp 55, Cranbrook, B.C., V1C 6H3

CHIEF: Sophie Pierre

PHONE: 426-5717 **FAX:** 426-8935

AFFILIATION: Ktunaxa/Kinbasket Tribal Council

LOCATION:

The four (4) reserves of the St. Mary's Band total 7455.9 hectares in size and are located north and east of the city of Cranbrook. The Reserves are:

Bummers Flats No. 6
Cassimayooks (Mayook) No. 5
Isidore's Ranch No. 4
Kootenay No. 1

Of the 4 reserves, 2 have records of water allocations associated with them:

Kootenay No. 1 - the largest of the St. Mary's Reserves, 7,041.7 hectares in size and located at the confluence of the St. Mary River and the Kootenay River.

Isidore's Ranch No. 4 - the second largest reserve, 275.2 hectares in size and situated downstream from Kootenay No. 1, on the Kootenay River.

The most recent population figures compiled by the Ministry of Finance report that the St. Mary's Band has 253 registered members. Of this population, 208 are reported to live on-reserve, 6 are reported to live on-reserve with other Bands, and 39 are reported to live off-reserve.

Located in the Rocky Mountain Trench, the 4 reserves lie at elevations in excess of 2,500 meters. The climate in the area consists of average daily temperatures which range from lows of -15 degrees centigrade (January) to highs between 16 and 20 degrees centigrade (July). Rainfall in the area totals less than 50 centimetres annually.

Water courses of significance include:

- Farrell Marsh - located in the northeast corner of Kootenay Reserve No. 1.

- Joseph Creek - a tributary of St. Mary's River located southeast of Cranbrook; the Creek flows north from Mt. Joseph into an un-named lake.

- Kootenay River - flows south into the Columbia River.

- Kratz Springs - located just south of St. Mary's River, on the northeast corner of Lot 1758 and south of Kootenay Reserve No. 1.

- Mather Creek (Cherry Spring) - a tributary of Kootenay River located north of Kootenay Reserve No. 1; Mather Creek flows east into Kootenay River.

- Mayook Creek (formerly Cassimayooks Creek) - a tributary of Kootenay River located south of Isidore's Reserve No. 4; Mayook Creek flows northeast and then east into Kootenay River.

- St. Mary's River - a tributary of Kootenay River located just south of Kootenay Reserve No. 1; St. Mary's River flows northeast into Kootenay River.

- an un-named spring/creek - actually a channel of Kootenay River; the water body flows south and then east through the center of Isidore's Reserve No. 4, before returning to the Kootenay River.

WATER ALLOCATIONS:

There are no records of water allocations made by either the Indian Reserve Commission or by Order of the Board of Investigation, with respect to the St. Mary's Band.

The water rights of the Band have been determined by three actions of government over the years:

1) Lieutenant Governor-in-Council approval, by Orders-in-Council, of records granting water rights.

2) Granting of water licenses in response to Federal Government applications requesting authorization for the use of water on reserve lands.

3) Actions to amend licensed rights pursuant to provisions in the *Water Act*..

HISTORY, CURRENT STATUS AND NOTES:

The history of water rights, the current status of rights and notes for the St. Mary's Band with respect to Farrell Marsh, Joseph Creek, Kootenay River, Kratz Springs, Mather Creek (Cherry Spring), Mayook Creek, St. Mary's River, an un-named spring or creek are as follows:

Farrell Marsh

History:

Jun 20, 1980 The Deputy Comptroller of Water Rights issued Conditional Water License 53817, bearing a precedence date of April 9, 1979. Conditional License 53817 authorizes the diversion of 130 acre feet of water per year from Mather Creek into storage on Farrell Marsh (from April 1 to June 30) and year-round usage. The license is appurtenant to the conservation project managed by Ducks Unlimited, located within Kootenay No. 1.

Current Status:

Conditional Water License 53817 is currently the only license active on Farrell Marsh. The license is registered to the Minister of Indian and Northern Affairs, on behalf of the St. Mary's Band.

The Water Survey of Canada has no records of streamflow for Farrell Marsh. No other current sources of water availability data for the Marsh were located during this study.

Notes:

1. There is no additional information with respect to the water rights of the St. Mary's Band on Farrell Marsh.

Joseph Creek

History:

Dec 4, 1868 A copy of Water Record was filed which granted John Shaw a right to divert 150 inches* of water from Joseph Prairie Creek for irrigation of 160 acres of land *"4.5 miles from Kootenay Ferry"*.

* Note: The reference to an inch of water is understood to be a "miner's inch" of water. The Water Act of 1914 defined a miner's inch as being equal to a flow of .028 cubic feet per second. Calculating this rate of flow over a 120 day irrigation season converts to the equivalent 6.664 acre feet per miner's inch.

Nov 29, 1911 A letter was sent to the Kootenay Indian Agency Office from an Indian Agent, on behalf of the Sisters of the House of Providence. The letter stated that John Shaw's land had been sold to the Oblate Fathers, who had donated 33 $^{1/3}$ acres to the Crown, to facilitate the construction of the Kootenay Industrial School.

A Memorandum of Claim Under Section 27, dated Nov 27, 1911, was submitted by the Sisters of the House of Providence. Under this, the Sister's claimed a right to divert 150 inches of water from Joseph Prairie Creek (Mission Creek) for domestic and irrigation purposes, on the 33 $^{1/3}$ acres of land donated to the Crown by the Oblate Fathers. The Sisters requested confirmation that the water rights described had been transferred to the Kootenay Industrial School.

Jun 16, 1913 At a final hearing of the Board of Investigation, acting pursuant to the Water Act of 1914, the Board determined that a valid water record affecting the claim of the Department of Indian Affairs to use of the waters of Joseph Creek was made under authority of an Act passed prior to March 12, 1909. The Order of the Board, numbered 854, set out that a license should be issued which would:

i) provide for diversion of water from Joseph Creek;
ii) take precedence from February 25, 1885; and
iii) authorize the diversion of 210 acre feet per year (from April 1 to September 30) for the irrigation of 84 acres of Lot 1, Group 1, in the Kootenay District.

Jun 16, 1913 At a final hearing of the Board of Investigation, acting pursuant to the Water Act of 1914, the Board determined that a valid water record affecting the claim of the Department of Indian Affairs and the Oblate Fathers to use of the waters of Joseph Creek was made under authority of an Act passed prior to March 12, 1909. The Order of the Board, numbered 818, set out that a license should be issued which would:

i) provide for the diversion of water from Joseph Creek;
ii) take precedence from December 4, 1868; and
iii) authorize the diversion of 270 acre feet per year (from April 1 to September 30) for the irrigation of Lot 1, Group 1, Kootenay District.

May 15, 1914	The Comptroller of Water Rights issued Conditional Water License 386 which embodied the terms set out in Board Order 854.
Jul 7, 1914	The Comptroller of Water Rights issued Final Water License 3112, which embodied the terms and conditions set out in Order 818.
Sep 29, 1923	The Comptroller of Water Rights issued Final Water License 3957 (in substitution of Conditional Water License 386) to the Sisters of Charity of the St. Eugene Mission. The license authorized the diversion of 92.5 acre feet per year (from April 1 to September 30) for the irrigation of 37 acres of Lot 494 of the Kootenay District.
Nov 20, 1934	A letter was received by the Comptroller of Water Rights from the Registrar, stating that Lot 494 was registered as owned by the Crown, in the right of the Superintendent of Indian Affairs. The Comptroller of Water Rights replied to the above letter, stating that his records indicated that the Sisters of Charity of St. Eugene owned Lot 494 and held Final Water License 3957. As such, the Comptroller requested records for the trace of this land and license from the Sisters of Charity to the Superintendent General of Indian Affairs.
Jan 18, 1957	In response to a statement of a Water Rights Rental Account sent to the Sisters of Charity, a letter was received by the Department of Lands and Forests. The Sisters stated that they had "never, at any time, and do not at present, hold or own any property in Cranbrook, B.C.". The Sisters stated that the Sisters of the House of Providence once owned property on the site where the Kootenay Indian School was located.
Nov 10, 1975	A letter was received by Department of Lands, Forests and Water Resources from the Kootenay Indian Council inquiring about the status of water licenses 11055, 3957 and 3112, allocated to the lands formerly called St. Eugene's Mission (owned by the Oblate Fathers and the Sisters of the House of Providence), covering Lot 494, 1758, Parcel A of Lot 7, and Parcels A & B of Lot 1. The letter stated that the aforementioned lands had been turned over to the five Kootenay Bands and had been granted Reserve status by the Department of Indian Affairs. The Band requested that the water rights be transferred to the Kootenay Indian Area Council.
Dec 11, 1975	The Comptroller of Water Rights transferred water rights appurtenant to the afore mentioned lots to the Kootenay Indian Council.

Apr 28, 1976 The Deputy Comptroller of Water Rights, in response to an Application for the Apportionment of a License filed by Ernest Pighin, proposed the following apportionment of water rights held under Final Water License 3112:

- For Lot 1, Kootenay District, except Canadian Pacific Railway Right of Way, Parcel A, Explanatory Plan 20074I and Sketch Map 20655A: allotment of 160 acre feet per year (April 1 to September 30) for irrigation of 64 acres.
- For that part of Lot 1, Kootenay District, shown on Explanatory Plan 20074I, Sketch Map 20655A and Parcel A, except Canadian Pacific Railway Right of Way: allotment of 110 acre feet/year (from April 1 to September 30) for the irrigation of 44 acres.

Sep 15, 1976 Conditional Water License 46848 was issued in substitution of Final Water License 3112. Under the new license, 110 acre feet per year (from April to September) was allotted for the irrigation of 44 acres of Lot 1.

July 8, 1977 A letter was received by the Comptroller of Water Rights from the Kootenay Indian Area Council, with regard to Final Water Licenses 3112 and 3957. The Council protested "the drying up of Joseph's Creek by the City of Cranbrook".

Aug 2, 1977 The Ministry of Environment replied to the above letter, stating that there was sufficient water in Joseph Creek to meet the needs of the City of Cranbrook and the Band.

July 11, 1989 A memo to the Deputy Comptroller of Water Rights reported that Conditional Water License 46848 and Final Water License 3957 were not being used by the St. Mary's Indian Band. The Memo stated that the land in question was currently irrigated by water from St. Mary's River.

Current Status:

There are currently 22 licenses active on Joseph Creek, two (2) of which are registered for the benefit of the St. Mary's Indian Band. Of the licenses:

- 9 authorize the use of water exclusively for irrigation purposes, ranging from 1.35 to 160 acre feet per year, from April to September.
- 8 authorize the use of water for waterworks - local authorities purposes, for between 7,008,000 to 2,948,105,000 gallons per year.

- 1 authorizes the use of water for both irrigation and domestic purposes; 69.25 acre feet per year for irrigation (between April and September), and 1,000 gallons per day, year-round for domestic use.
- 1 authorizes the use of water for irrigation - local authorities purposes, for 47.5 acre feet per year (between April and September).
- 2 authorize use of water for land improvement, for 50 acre feet of water per year.
- 1 authorizes the use of water for storage - non power purpose, for 1,850 acre feet of water per year (from October to June); this water is stored in a reservoir.

On Joseph Creek, the St. Mary's Band hold Conditional Water License 46848, which is first in priority, and Final Water License 3957, which is sixth in priority.

The Water Survey of Canada has operated five flow measurement stations at various times, along Joseph Creek. These include:

- Station 08NG074: located above the Lagoon outfall. The station recorded flows from 1971 to 1978. The data from this period indicated that the mean monthly flow reached a high of 1.12 m^3/sec in June, and a low of 0.145 m^3/sec in January.
- Station 08NG015: located at Cranbrook. The station recorded flows during the summer months from 1920 to 1927. During this period the mean monthly flow reached a high of 1.29 m^3/sec in May, and a low of 0.111 m^3/sec, in September.
- Station 08NG070: located in Lot 5450 has sporadic flow data from 1968 through to 1974. Records for the period indicate that the mean monthly flow reached a high of 1.09 m^3/sec in May, and a low of 0.172 m^3/sec in March.
- Station 08NG068: located in Lot SL-1A. The station has intermittent recorded flows from 1968 and 1974 to 1976. For the period recorded the mean monthly flow reached a high of 1.10 m^3/sec in May, and a low of 0.079 m^3/sec in March.
- Station 08NG014: located near Cranbrook. The station recorded flows during the summer months from 1920 to 1927. Reports for this period indicate that the mean monthly flow reached a high of 1.39 m^3/sec in May, and a low of 0.182 m^3/sec in August.

Notes:

1. The amount of water allocated under Conditional Water License 386 was reduced by the substitution of the Conditional License with Final Water License 3957.
2. The Band has indicated that there is a shortage of water in Joseph Creek, which they attribute to diversion by the city of Cranbrook.
3. In 1989, a report was filed by regional staff which states that the Band has discontinued use of Joseph Creek in favor of the St. Mary's River.
4. In 1994, the Band raised concerns regarding water supplies available to protect the fishery resource. The Band stated that because of over-licensing sufficient fisheries-flow volumes were no longer maintained.

Kootenay River

History:

Sep 1, 1977	The Comptroller of Water Rights issued Conditional Water License 48773, bearing a precedence date of Mar 21, 1972 and authorizing the diversion of 30 acre feet per year (from April 1 to September 30) from Kootenay River, for the irrigation of 120 acres of that part of Isidore's Ranch No. 4 lying south and west of a channel of the Kootenay River.
Jul 11, 1989	In a memo addressed to the Deputy Comptroller of Water Rights, the Allocation Section Head stated that there were no works constructed under Conditional Water License 48773 and no beneficial use had been made of the license for 12 years.

Current Status:

There are currently 20 licenses active on Kootenay River, one of which is for the use and benefit of the St. Mary's Band. Of the active licenses:

- 13 authorize the use of water for irrigation purposes, ranging from 35 to 540 acre feet per year, from April to September.
- 2 authorize the use of water for conservation - stored water purpose, for between 325 to 600 acre feet per year.
- 1 authorizes the use of water for land improvement purposes.

- 2 authorize the use of water for domestic purposes, ranging from 500 to 2,000 gallons per day, year-round.
- 1 authorizes the use of water for both irrigation and domestic purposes: 200 acre feet of water per year for irrigation (between April 1 and September 30), and 1,000 gallons per day, year-round for domestic use.
- 1 authorizes the use of water for pulp mills, for 10 cubic feet per second per year.

The St. Mary's Band holds Conditional Water License 48773, which is sixth in priority on the Kootenay River.

Records from Water Survey of Canada Station No. 08NG065 on the Kootenay River show that mean monthly flows reach a peak of 660 m^3/sec in June, drop quickly to 180 m^3/sec in August, and reduce to a low of 36.8 m^3/sec in February. The mean annual discharge is approx. 4.4 million acre feet.

Notes:

1. Information contained on File No. 309833 from 1989 indicates that the works required under Conditional Water License 48773 have not been constructed. There is no correspondence on file to indicate whether any action, since 1989, has been taken in this regard.

Kratz Springs

History:

Nov 6, 1931 The Comptroller of Water Rights issued Conditional Water License 11055 to the Superintendent General of Indian Affairs, bearing a precedence date of August 17, 1931 and authorizing the diversion of 15,000 gallons per day, year round from Kratz Springs for domestic use on that part of Lot 1, Group 1, Kootenay District on which was situated the St. Eugene Indian Industrial School.

Jun 10, 1935 The Comptroller of Water Rights issued Final Water License 9356 (in substitution of Conditional Water License 11055) to the Superintendent General of Indian Affairs, bearing a precedence date of August 17, 1931 and authorizing the diversion of 15,000 gallons per day, year-round for domestic use in St. Eugene Indian Industrial School, situated on the northwest portion of Lot 1, Kootenay District.

Jul 11, 1989 In a memo addressed to the Comptroller of Water Rights, the Allocation Section Head in Cranbrook reported that under the current conditions, beneficial use as required under Final Water License 9356, could not be defended. He stated that the buildings had been vacant for many years. The structures still existed, and were slowly being reconstructed with the intent to create a tourist attraction.

Current Status:

Final License 9356, held by the St. Mary's Indian Band, is the only active license on Kratz Springs and is therefore first in priority rights.

The Water Survey of Canada has no streamflow records for Kratz Springs. No other current information on water availability for the Springs was found during the course of this investigation.

Notes:

1. Under current licensing practices Final Water License 9356 would be issued for waterworks purposes. The amendment of the license to waterworks purposes would qualify the Kratz Springs drainage area for designation as a 'Community Watershed' under provisions contained in the Forest Practices Code.

2. Information contained on File No. 101918 from 1989 indicates that the rights under Final Water License 9356 may not have been exercised for some time; however, at the time the report was filed the land was slowly being redeveloped as a tourist attraction.

Mather (formerly Cherry) Creek

History:

Aug 13, 1896 The Lieutenant Governor-in-Council authorized the Government Agent for East Kootenay District to record:

> *"100 inches* on Cherry Creek (Mather Creek)"* from a point of diversion *"near head of Peter Doyles's ditch"*.

* Note: The reference to an inch of water is understood to be a "miner's inch" of water. The Water Act of 1914 defined a miner's inch as being equal to a flow of .028 cubic feet per second. Calculating this rate of flow over a 120 day irrigation season converts to the equivalent 6.664 acre feet per miner's inch.

Aug 26, 1921	At a final hearing of the Board of Investigation, the Board determined that a valid water record affecting the claim of the Department of Indian Affairs to use of the waters of Mather (formerly Cherry) Creek was made under authority of an Act passed prior to March 12, 1909. The Order of the Board, No. 1304, set out that a conditional license should be issued which would: i) provide for the diversion of water from Mather Creek; ii) take precedence from September 23, 1896; and iii) authorize the diversion of 672 acre feet per year for the irrigation of 269 acres of St. Mary's Reserve No. 1, provided that 30,000 gallons per day, year-round was available for domestic use.
Jan 25, 1924	The Comptroller of Water Rights issued Conditional Water License 7360, which embodied the terms set out in Order 1304.
Dec 14, 1925	The Comptroller of Water Rights issued Final Water License 4966 to Peter Woods of Cranbrook, B.C., bearing a precedence date of July 24, 1911. The license authorizes the diversion of 325 acre feet per year (from April 1 to September 30) for the irrigation of 130 acres, comprising part of Blocks 15 and 16, Reg. Plan X40, Nelson L.R.D. part of Lot 339, Group 1, Kootenay District. Incidental domestic use is also authorized under this license in the amount of 3,000 gallons per day, year round.
Dec 31, 1941	Conditional License 7360 was canceled; the terms regarding the cancellation are unavailable, as this file was destroyed.
Oct 14, 1954	John Woods, holder of Final Water License 4966, requested to the Water Rights Branch that his license be amended to provide for diversion of only 177.5 acre feet per year for the irrigation of 71 acres.

Jan 14, 1955 The Comptroller of Water Rights issued an Order authorizing the construction and maintenance of an intake dam and ditches from the intake dam to the place of use, in place of the works originally authorized under Final License 4966. The license was also amended to reduce the quantity of water authorized for diversion, to 177.5 acre feet per year, and the area of land which could be irrigated, to 71 acres.

With the Order, Permit to Occupy Crown Land No. 3997 was issued. The Permit validated a long-standing entry on a portion of S.T.L. 14029L, Kootenay Land District.

Jul 18, 1979 In a letter to the Water Rights Branch, the Law Department at Canadian Pacific stated that pursuant to a settlement between Canadian Pacific Limited and the Crown regarding "problems affecting Kootenay Reserve No. 1", Canadian Pacific and the Crown had acquired a section of land adjacent to the Reserve. With the acquisition of the land Canadian Pacific requested that any associated water licenses be transferred into their name.

Jun 20, 1980 The Deputy Comptroller of Water Rights issued Conditional Water License 53817, bearing a precedence date of April 9, 1979. The license authorizes the diversion of 130 acre feet/year (from April 1 to September 30) from Mather Creek into storage on Farrell Swamp. The water is authorized for use throughout the whole year. The license is appurtenant to the conservation project of the lessee (Ducks Unlimited) located within Kootenay No. 1.

May 27, 1981 The Director General of Indian Affairs and Northern Development, on behalf of Her Majesty the Queen in the right of Canada, applied for a Transfer of Appurtenancy to transfer all the rights authorized under Conditional Water License 4966 to the Department of Indian Affairs and Northern Development, and for the amendment of the said license or issue of a new license to authorize the use of the water on Subplots 9, 10, 15, and 16, District Lot 339, Kootenay District, Plan X-40, East Kootenay Assessment Authority.

Dec 3, 1981 In a Report for Transfer of Appurtenancy, it was recommended that the Application for Transfer of Appurtenancy, with regard to Final Water License 4966, be refused. Instead the report advocated the issue of a new water license which would reflect the additional acreage which was proposed for irrigation.

Mar 15, 1982 The St. Mary's Indian Band made an Application for a Change of Works with regards to Final Water License 4966.

Jan 20, 1983	In a Report for a Change of Works (Final Water License 4966), the Regional Water Manager recommended that the application be granted and a new Conditional Water License be issued. It was noted that the works are joint with Application 4000004 (Conditional Water License 60014).
Feb 18, 1985	The Regional Water Manager issued Conditional Water License 60014 to the Director of Indian Affairs on behalf of the St. Mary's Band. The license was assigned a date of precedence of March 15, 1982 and authorizes the diversion of 100 acre feet per year from Mather Creek, for irrigation purposes. Under Conditional License 60014 the water may be used only during the period extending from April 1 to September 30, on 40 acres of Sublots 9, 10, 15 and 16, District Lot 339 of Kootenay District, Plan X-40.
Apr 19, 1989	The Comptroller of Water Rights issued Conditional Water License 68937 (in substitution of Final Water License 4966) to the Minister of Indian and Northern Affairs, bearing a precedence date of July 24, 1911. The license authorizes the diversion of 173.5 acre feet per year (from April 1 to September 30) for irrigation, 1,000 gallons per day, year-round for domestic use, and 2,000 gallons per day, year-round for stock watering. The appurtenant lands are specified as Sublots 15 and 16 of District Lot 339, of which 69.4 acres may be irrigated. This license authorizes the use of water for domestic purposes in 2 dwellings, and for industrial purposes in 1 barn.
	Under Conditional Water License 68937, the Permit over Crown Land which had been associated with Final Water License 4966 was no longer required.
Jul 11, 1989	A memo from the Allocation Section Head to the Deputy Comptroller of Water Rights concluded that the works at point of diversion Ff were constructed and in use. No works had been constructed at point of diversion Ee. Only 1 dwelling existed on the property, and it was unknown if it was being served under Conditional Water License 68937. The memo went on further to state that 105 acres of District Lot 339 were being irrigated, and that the irrigation allocations authorized under Conditional Water Licenses 68937 and 60014 were being fully utilized.

Current Status:

There is a total of 35 licenses on Mather Creek, two of which are for the use and benefit of the St. Mary's Band. Of the 35 licenses:

- 17 authorize use of water for domestic use, for a total of 11,100 gallons per day per year.
- 8 authorize the use of water for irrigation purposes, for a total of 1406.07 acre feet per year, from April 1 to September 30.
- 6 authorize the use of water for combined domestic and irrigation purposes, at 4750 gallons per day year-round for domestic use, and 738.83 acre feet per year, (from April 1 to September 30) for irrigation use.
- 2 authorize the storage of water for conservation purposes, for a total of 195 acre feet per year, from April 1 to June 30.
- 1 authorizes use of water for the production of commercial power, at 9 cubic feet per second, year-round.
- 1 authorizes the use of water for combined domestic, irrigation and stockwatering purpose: 1000 gallons per day, year-round is authorized for domestic use, 2000 gallons per day, year-round is authorized for stockwatering, and 173.50 acre-feet per year (from April 1 to September 30) is authorized for irrigation use .

On Mather Creek the St. Mary's Band hold Conditional Water License 68937, which is third in priority, and Conditional Water License 60014, which is twenty-ninth in priority.

At various times during this century four different flow measurement stations have been operated along Mather Creek. The currently operating station, No. 08NG076, is located on Mather Creek at a point below Houle Creek. The station measured flows throughout the year since August of 1972. For this period the mean monthly flow has reached a high in June, during the spring freshet, of 4.27 m^3/sec, and has then fallen to a low of 0.272 m^3/sec in February.

Notes:

1. Mather Creek is listed on the provincial governments' Water Licensing Information System (WLIS) as being fully recorded.

Mayook (formerly Cassimayook) Creek

History:

Aug 26, 1921 At a final hearing of the Board of Investigation, acting pursuant to the Water Act of 1914, the Board determined that a valid water record affecting the claim of the Department of Indian Affairs to rights to the use of the waters of Cassimayook Creek was made under authority of an Act passed prior to March 12, 1909. The Order of the Board, numbered 950, set out that a conditional license should be issued which would:

	i) provide for diversion of water from Cassimayook Creek; ii) take precedence from February 14, 1889; and iii) authorize the diversion of 600 acre feet per year for the irrigation of 200 acres of Isidore's Ranch Reserve No. 4, provided that 2,000 gallons per day, year-round was available for domestic use.
Jan 25, 1924	The Comptroller of Water Rights issued Conditional Water License 7358, which embodied the conditions set out in Board Order 950.
Nov 20, 1934	The Comptroller of Water Rights issued an Order notifying the Department of Indian Affairs that they had failed to prove that the construction of the works authorized under Conditional Water License 7358, had been initiated. In response to the lack of evidence, the Comptroller proposed to cancel Conditional Water License on December 22, 1934.
Mar 12, 1935	The Comptroller of Water Rights issued an Order in accordance with the notice of proposed cancellation dated Nov 20, 1934, which stated that Conditional Water License 7358 was canceled.

Current Status:

There are currently four licenses on Mayook Creek, none of which are for the benefit of the St. Mary's Band. Of the licenses:

- 1 authorizes the use of water for irrigation purposes, for 21 acre feet per year (from April 1 to September 30).
- 1 authorizes use of water for stockwatering, at 2,000 gallons per day, year-round.
- 1 authorizes the use of water for conservation - stored water purpose, at 100 acre feet per year, for a waterfowl enhancement project.
- 1 authorizes the use of water for conservation - construct works purpose, at 125 acre feet per year.

The Water Survey of Canada has records of streamflow for Mayook Creek near Baker from Station No. 08NG031, for the period April through September, 1928 to 1931. The records report that a high mean monthly flow of 0.094 m^3 per second occurred in May, and then fell to a low mean monthly flow of 0.013 m^3 per second in August and September.

Notes:

1. The water rights held by the St. Mary's Band under Conditional License 7358 were canceled in 1935. The Department of Indian Affairs was notified of the proposed cancellation.

St. Mary's River

History:

Aug 13, 1896 The Lieutenant Governor in Council authorized the Government Agent for East Kootenay District to record:

> *"400 inches* on St. Mary's River"* from a point of diversion *"one mile above bridge"*.

* Note: The reference to an inch of water is understood to be a "miner's inch" of water. The Water Act of 1914 defined a miner's inch as being equal to a flow of .028 cubic feet per second. Calculating this rate of flow over a 120 day irrigation season converts to the equivalent 6.664 acre feet per miner's inch.

Aug 26, 1921 At a final hearing of the Board of Investigation, the Board determined that a valid water record affecting the claim of the Department of Indian Affairs to the use of the waters of St. Mary's River was made under authority of an Act passed prior to March 12, 1909. The Order of the Board, numbered 1289, set out that a conditional license should be issued which would:

i) provide for the diversion of water from St. Mary's River;
ii) take precedence from September 23, 1896; and
iii) authorize the diversion of 2,688 acre feet per year for the irrigation of 1,075 acres of St. Mary's Reserve No. 1, provided that 30,000 gallons per day, year-round was available for domestic use.

Jan 25, 1924 The Comptroller of Water Rights issued Conditional Water License 7359, which embodied the terms and conditions set out in Board Order 1289.

May 3, 1982	The Deputy Comptroller of Water Rights issued Conditional Water License 56716 to the Kootenay Indian Area Council, with a precedence date of Jun 6, 1980. The license authorized diversion of 357.5 acre feet per year (from April through September) for irrigation purposes. The appurtenant lands are specified as Lot 1756, Lot 494, Parcel A (Certificate of Title 1516K), Parcels A and B, Explanatory Plan 20655A, Lots 1 and 2 of Explanatory Plan 20074I, of Lot 1 Kootenay District, except Right-of-Way Plan 8353, of which 130 acres may be irrigated. A Certificate of Indefeasible Title, No. 30746-I, applying to District Lot 1758, District Lot 494, and part of District Lot 1, is on file.
Aug 11, 1995	The St. Mary's Indian Band made an Application for a Change of Works, authorized under Conditional Water License 56716.
Sep 18, 1995	A Preliminary Amendment Report for a Change of Works with regard to Conditional Water License 56716 was forwarded from the Cranbrook office to the Nelson office; in it, the Regional Water Manager recommended that the application be granted and a new Water License be issued.

Current Status:

There is a total of 15 licenses active on St. Mary's River, two of which are for the use and benefit of the St. Mary's Band. Of these licenses:

- 2 authorize the use of water for waterworks - local authorities purposes, for a total of 292,000,000 gallons per year.
- 6 authorize the use of water for irrigation purposes, for a total of 1146.3 acre feet, from April 1 to September 30.
- 1 authorizes the use of water for fire protection, at 50,000 gallons per year.
- 1 authorizes the use of water for processing purpose, at 8,615,264 gallons per day.
- 1 authorizes the use of water for domestic and irrigation purpose, at 30,000 gallons per day for domestic use and 2688 acre feet per year for irrigation use.
- 1 authorizes use of water for irrigation-local authorities, at 2500 acre feet per year.
- 1 authorizes the use of water for land improvement purpose.
- 1 authorizes the use of water for nurseries, for 44.88 acre feet per year.
- 1 authorizes the use of water for combined domestic, irrigation and stockwatering purposes; at 1000 gallons per day for domestic use, 300 gallons per day for irrigation use and 300 acre feet per day for stockwatering use.

The St. Mary's Band hold Conditional Water License 7359, which is first in priority, and Conditional Water License 56716, which is tenth in priority, on St. Mary's River.

The Water Survey of Canada operated three flow measurement stations along the St. Mary's River. The most downstream station, No. 08NG012, located at Wycliffe, has recorded flows during the summer months from 1914 to 1917, and then throughout the year from 1946 on. The records for this period indicate that the mean monthly flow reaches a high of 215 cubic meters per second in June, and a low of 8.69 cubic meters per second in February.

Notes:

1. Under current licensing practices Conditional Water License 7359 would be issued for irrigation and waterworks purpose. The amendment of the license to waterworks purpose would qualify the St. Mary's River drainage area for designation as a 'Community Watershed' under provisions contained in the Forest Practices Code.

un-named spring or creek

History:

Feb 8, 1889 By Order in Council No. 33, the Lieutenant Governor-in-Council authorized the Chief Commissioner of Lands and Works to record:

> *"300 inches* of water from a spring or creek that crosses the old Boundary Commissioners trail, ten miles south of Galbraith's Ferry, for irrigation use by the Indians on their Reserve".*

* Note: The reference to an inch of water is understood to be a "miner's inch" of water. The Water Act of 1914 defined a miner's inch as being equal to a flow of .028 cubic feet per second. Calculating this rate of flow over a 120 day irrigation season converts to the equivalent 6.664 acre feet per miner's inch.

This order is unclear in terms of the Band name, the specific reserve and the stream affected by the record; the record appears to be for the benefit of the St. Mary's Band, on Isidore's Ranch No. 4.

Notes:

1. There is no additional information with respect to the rights of the St. Mary's Band on the unnamed spring or creek.

OTHER INFORMATION:

Groundwater Records:

A review of well records maintained by the MELP - Groundwater Sections found that there has been considerable groundwater development on, and around, Kootenay Reserve No. 1. Thirty-eight (38) wells have been reported on the reserve with yields between 4 and 40 gallons per minute. The extent of current utilization is unknown. Further information has been appended to the report.

As the provision of well information to the Groundwater Section is voluntary, the information contained in the summary should not be assumed to be complete.

Municipal Water Sources:

Kootenay Reserve No. 1 lies approximately three miles north of the limits of the City of Cranbrook, on the opposite side of the St. Mary's River. Water supply from the municipality is possible, but given the logistics of the reserve, may be costly to develop.

Summary of Water Records

St. Mary's

Water Source	Priority Date	Reserve Name	File No.	Document Type	Status	Superceded By	License PUC/MOD & OIC Allotments	Comments
Farrell Marsh/ Mather Creek	1979/04/09	Kootenay #1	365398	CL 53817	Current		130 AF/Conservation	CL 53817: Appurtenant to conservation project managed by licensee - *Ducks Unlimited* .
Jospeh Creek	1885/02/25	Kootenay #1	38714	CL 386	Superceded	FL 3957	210 AF/Irrigation	CL 386: Issued in response to earlier MOD; Based on *Board Order 854* .
Joseph Creek	1885/02/25	Kootenay #1	265705	FL 3957	Current		92.5 AF/Irrigation	FL 3957: Issued in name of *Sisters of Charity of Eugene Mission* . License amended; issued in name of Band (subsequent to title search on appurtenant lands).
Joseph Creek	1868/12/04	Kootenay #1	242247	FL 3112	Superceded	CL 46848	270 AF/Irrigation	FL 3112: *Board Order 818* issued in name of DIA and Oblate Fathers.
Joseph Creek	1868/12/04	Kootenay #1	242247	CL 46848	Current		110 AF/Irrigation	CL 46848: *Priority 1* on Josephs Creek.

Water Source	Priority Date	Reserve Name	File No.	Document Type	Status	Superceded By	License PUC/MOD & OIC Allotments	Comments
Kootenay River	1972/03/21	Kootenay #1	309833	CL 48773	Current		300 AF/Irrigation	CL 48773: *Priority 6* on Kootenay River.
Kratz Springs	1931/08/17	Kootenay #1	101918	CL 11055	Superceded	FL 9356	15,000 GAD/Domestic	
Kratz Springs	1931/08/17	Kootenay #1	101918	FL 9356	Current		15,000 GAD/Domestic	FL 9356: *Priority 1* on Kratz Springs. Potential designation Kratz Springs Drainage Area "*Community Watershed*"; requires amendment - purpose = "waterworks".
Mather (Cherry) Creek	1896/08/13	Kootenay #1		OIC			100 inches	
Mather (Cherry) Creek	1896/09/23	Kootenay #1	4/21/01	CL 7360	Canceled		672 AF/Irrigation 30,000 GAD/Domestic	CL 7360: Based on *Board Order 1304*. Cancellation: File destroyed; no info regarding circumstances.
Mather (Cherry) Creek	1911/07/24	Kootenay #1	265517	FL 4966	Superceded	CL 68937	3,000 GAD/Domestic, 177.5 AF/ Irrigation	

Water Source	Priority Date	Reserve Name	File No.	Document Type	Status	Superceded By	License PUC/MOD & OIC Allotments	Comments
Mather (Cherry) Creek	1911/07/24	Kootenay #1	265517	CL 68937	Current		173.5 AF/Irrigation 2,000 GAD/Stock Watering 1,000 GAD/Domestic	CL 68937: *Priority 3* on Mather Creek.
Mather (Cherry) Creek	1982/03/15	Kootenay #1	4000004	CL 60014	Current		100 AF/Irrigation	CL 60014: *Priority 29* on Mather Creek.
Cassimayook (now Mayook) Creek	1889/02/14	Isidore's Ranch #4	950	CL 7358	Canceled		2,000 GAD/Domestic 600 AF/Irrigation	CL 7358: Based on *Board Order 950*.
St.Mary River	1896/08/13	Kootenay #1		OIC			400 inches	
St.Mary River	1896/09/23	Kootenay #1	241152	CL 7359	Current		30,000 GAD/Domestic 2,688 AF/Irrigation	CL 7359: Based on *Board Order 1289*. *Priority 1* on St. Mary's River. Qualifies St. Mary's drainage area *"Community Watershed"* - requires amendment; purpose = *"waterworks"*.

Water Source	Priority Date	Reserve Name	File No.	Document Type	Status	Superceded By	License PUC/MOD & OIC Allotments	Comments
St.Mary River	1980/06/06	Kootenay #1	366696	CL 56716	Current		357.5 AF/Irrigation	CL 56716: *Priority 10* on St. Mary's River.
Un-named Spring/ Creek	1889/02/08	Isidore's Ranch #4		OIC	Current		*"300 inches of water from a spring or creek that crosses the old Boundary Commissioners trail, 10 miles south of Galbraith's Ferry ... for irrigation"* (AGBC# 808, 960)	OIC: Order unclear in terms of Bands name, specific reserve and stream affected by record. Record appears benefit St. Mary's Ranch on Isidore's Ranch #4.

LEGEND:

License Types (Document Types)
CL: Conditional License
FL: Final License
Z: Application

Mechanisms for Allocation (Document Type)
OIC: Order-in-Council (as issued by the Lieutenant Governor in Council)
MOD: Minute of Decision (as recorded under the Indian Reserve Commission)
IRC: Indian Reserve Commission
AGBC: Attorney Generals Office of BC (followed by File #)

Allotment Units
GAD: Gallons a day
AF: Acre feet
CFS: Cubic feet per second

33
89

Authorizing the
Chief Commissioner
to record 300 in.
of water applied for
by M. Phillips.

AGB C 808,960

On a Memorandum from the Honourable Chief Commissioner of Lands & Works, reporting,

That Michael Phillips, acting Indian Agent, for the District of Kootenay, has made application to record 300 inches of water from a Spring or Creek that crosses the old Boundary Commissioners trail, ten miles south of Galbraith's Ferry. The water is required by the Indians for irrigation on their Reserve.

That the Commissioner for the District has reported in writing that the provisions of the law have been carried out, and that there are no settlers in the vicinity likely to be affected by the grant.

And recommending that the Commissioner be authorized to make the desired record.

The Committee advise approval

R. Dunsmuir
President Executive Council

Approved 8th February 1889
Hugh Nelson
Lieutenant Governor

311

AGBC 587

On a Memorandum from the Honourable the Chief Commissioner of Lands and Works, dated 12th August 1896, enclosing a report from the Government Agent for East Kootenay District upon the application of Mr Indian Agent Galbraith for a grant of certain water rights under authority of Section 52 of the Land Act for the use and benefit of the StMary's, Tobacco Plains, Columbia Lakes and Shuswap Bands of Indians.

And recommending that the Government Agent be authorized to record the said water rights upon the conditions he advises.

The Committee advise approval

Chas. E. Pooley
President of Executive Council

Approved 13th August, 1896.

Theodore Davie C.J.

Administrator

The 'LAND ACT' Section 53.

In the matter of an application for a water grant of o thousand nine hundred inches from various streams as detailed below for the term of perpetuity. Such water to be div from its source and to be carried in ditches or flumes as de below and to be used by the respective Bands of Indians for irr purposes on their respective reserves

Band of Indians	Source of water	Inches of Water	Point of Diversion	Names of persons whose lands will be affected by the ditches or flumes	Use
St Marys	St Marys River	400	One mile above Bridge		B
	Cherry Creek	100	Near head of Peter Doyle's ditch	Peter Doyle	B
Tobacco Plains	W. Phillips	200	1 mile below W. Phillips residence	William Phillips, Columbia & Kootenay Railway and Navigation Co.	B
	Reserve	200	On Reserve		B
	Gorm	100	On Reserve		
Columbia Lake	[illegible]	100	Near head of Walter Eyre's ditch	Walter Eyre	B. C
	Tatley	200	On Reserve		C
	Sams	200	On Reserve		C
	Sophy	200	On Reserve		C
Shuswap	Shuswap	100	Near John Lambert's residence	John Lambert	B C
	Lake on Reserve	100	On Reserve		B C

I would report that I have not examined the stream taken any evidence on oath but that from information ob from the Indian Agent and other persons I believe

1° The provisions of the Land Act relating to notice of application to divert and record water have been satisf

2° Notices concerning those quantities of water mark B in the above table were published in the British Col Gazette for the sixty days commencing on the 30th day April 1896 and in the Fort Steele "Prospector" for the six days commencing the 25th day of April 1896

3° Notices concerning those quantities of water mark C in the above table were published in the British Columbia Gazette for the 60 days commencing 20th June 1889, and also in the Victoria Weekly Times at about the same date. No newspaper was then published in this dis

4 The water applied for with the exception of part o that from St Mary's River and all of that from Cherry Creek has been used by the respective ba Indians for many years and ditches and flumes ha been constructed but no grants have been recorded.

5 No damage is likely to accrue from the diversion for, to the land owners or other persons having water rights on the streams mentioned

6 The volume of water in the streams mentioned is sufficient for the cultivable land in the vicin

7 The quantity of water applied for is necessary an reasonable

---

I would further report that on the 8th day of June 1896 I sent by registered letter prepaid a of the notice mentioned in section 40 to Peter Coyle William Phillips, Hattie Tegart and John Lambert an on the 31st day of July I sent a similar notice The Columbia and Kootenay Railway and Navig Company Vancouver, a copy of which is hereto att

I would recommend that the water rights be granted on condition that the irrigation ditches or flumes be properly covered wherever they cross public roads

Dated at Donald B.C. 8th August 1896

J. F. Armstrong
Assistant Commissioner of
Lands and Works.
District of East Kootenay.

PROVINCE OF
BRITISH COLUMBIA.

WATER RIGHTS BRANCH.

DEPARTMENT OF
LANDS.

CONDITIONAL WATER LICENCE.

(For Irrigation Purposes.)

WHEREAS the Board of Investigation, constituted and acting under the "Water Act," duly held an investigation respecting the waters set out in the order No. 854, a duplicate of which is hereto attached, and in the said order directed the Comptroller of Water Rights to issue a conditional licence in respect of the particular record and claim respectively set out therein, and further therein named the terms and conditions to be embodied in the said licence:

NOW, THEREFORE, I, Comptroller of Water Rights of the Province of British Columbia, in pursuance of the said order and in conformity with the "Water Act," issue this conditional licence, and declare the rights in and to the use of the said waters held under the said record in respect of the said claim to be such as are set out in the said order; and the terms and conditions of the said order, a copy of which is hereto attached, and any exhibits which are therewith incorporated are hereby incorporated herewith and form a part hereof.

Made and entered this 15th day of May, 1914.

Superseded by
F. L. 3951

William Young
Comptroller of Water Rights.

Form No. 1006, W.R.B. (Licence in respect of Board Order)—3,000/7/13.

Number 386

C

Copy for Comptroller

EXHIBIT "A"

British Columbia.

To accompany Order No. 854 Precinct.

CRANBROOK WATER DISTRICT

Scale, 20 Chains to 1 Inch

LEGEND

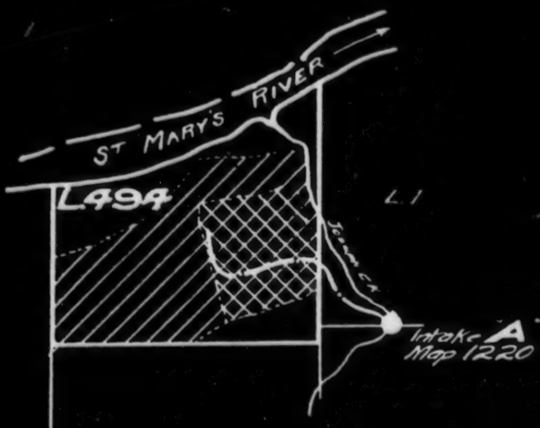
Intake ●

Ditch — · — · —

Boundaries of licencees lands ——┬——

Irrigable land { Not irrigated ▨

Irrigable land { Irrigated ▩


St MARY'S RIVER
L494
L.1
Joseph Ck
Intake "A"
Map 1220

TRUE NORTH

Description of Works:-
Dam and ditch.

Signature J. F. Armstrong E Davis

Date

Order No. 854

PROVINCE OF BRITISH COLUMBIA. WATER RIGHTS BRANCH. **DEPARTMENT OF LANDS.**

EXHIBIT "B."

(LIST OF WORKS TO BE CONSTRUCTED.)

(Forming part of an Order of the Board numbered as noted at the foot of this sheet.)

The works which are accepted as necessary and suitable for the taking and ~~(or)~~ using ~~and (or) storing~~ of the water under the above-mentioned order are as follows:—

(1) The works necessary for the distribution of the water to all parts of the irrigable lands, as set out in sub-clause (g) of Clause 2 of the Determination and Order hereto attached.

BOARD OF INVESTIGATION.

W ENTERED ON Jan'y
Map No. 1220
By

By J. F. Armstrong, *Chairman.*

and E. Davis, *Member.*

Form 505, W.R.B. (Approval of Plans)—2,000/9/13—Forming Part of Board Order No. 854

Copy for Comptroller 376

PROVINCE OF BRITISH COLUMBIA. | WATER RIGHTS BRANCH. | DEPARTMENT OF LANDS.

DETERMINATION AND ORDER

(For Conditional Water Licence for Irrigation Purposes)

BY THE BOARD OF INVESTIGATION
UNDER THE "WATER ACT."

Fernie

In the Matter of the Rights and Claims to the Waters of certain Streams lying in ....

.... Cranbrook .... **Water District, in the Neighbourhood**

of .... St. Eugene Mission ...., **B.C.**

NOW, on this .... the 16th .... day of .... June ...., 1913, the above-entitled matter coming on regularly for final hearing before the Board of Investigation; notice of the intention to investigate all and every the said rights and claims having been given by the Board as required by the "Water Act"; all persons having claims to water on the said streams or in the said locality having been directed to file their claims with the Board; due notice having been given of the times and places of preliminary and final hearings respectively in the above-entitled matter; all and every the steps required under the Act to be taken by the Board before a determination of the said rights and claims should be made having been taken; all evidence, testimony, and proofs filed with the Board or presented in the above-entitled matter having been duly considered; a quorum of the Board being present at this hearing; and the Board, being now fully advised in the premises, determines with respect to the claim...... of Sisters of House of Providence

....

the said claim...... being on file and numbered .... 4B-3-14 ....:—

1. That a valid record affecting the said claim...... was made under the authority of an Act passed prior to the 12th day of March, 1909, and that under the said record the owner of the particular hereditament set out in subclause (*g*) of clause 2 hereof was granted a right to take and use water from the source of supply set out in subclause (*a*) of the said clause for the purpose specified in subclause (*d*) of the said clause.

2. The Comptroller of Water Rights is hereby directed to issue a conditional licence in respect of the said record and claim...... embodying the following terms and conditions:—

(*a*.) The source of the supply is .... Joseph Creek
a tributary of .... St. Mary's River

(*b*.) The point of diversion from the stream is located as shown in the exhibit marked "A" which is hereto attached and hereby made a part hereof, the original of which exhibit is on file in the office of the Comptroller of Water Rights, Parliament Buildings, Victoria.

(*c*.) The date from which the said licence shall take precedence is .... 25th February 1885

....

(*d*.) The purpose for which the water is to be used is irrigation.

(*e*.) The maximum quantity of water per annum which may be used when irrigation is extended to all lands mentioned in paragraph (*g*) hereunder, until lawfully altered, is 210 acre-feet, and the maximum quantity of water which may be used per annum on each acre actually irrigated until lawfully altered is .... 2½ acre-feet: Provided that where other sources of supply than that named in clause (*a*) hereof are drawn upon for the irrigation of a part or all of the same lands as are described in clause (*g*) hereof, the maximum quantity of water which may be used under the licence hereby directed to be

Superseded by
F.L. 3 C

Form No. 508, W.R.B. (Board Order—Irrigation—Works not completed)—5,000/7/13.

Order No. 854

Copy for Comptroller 386

issued shall be reduced by the quantity which the owner may be entitled to use from said other sources of supply, viz.: From stream..under order numbered.............................., and from stream..under order numbered.............................., and from stream..under order numbered..............................: Provided further that when the Engineer of the Water District has accumulated the requisite hydrographic data for determining to the satisfaction of the Comptroller the *pro rata* part of the said total quantity to be apportioned to the licence hereby directed to be issued, the Comptroller shall require the surrender thereof and shall amend the same by stating the particular quantity to which the licensee is entitled from the particular source named therein.

(*f.*) The period of the year during which the water may be used is..
..........................1st April to 30th September..........................

(*g.*) The area and description of the irrigable lands to which this right may extend on completion of the works and beneficial use of the water in the way of the irrigation of the said lands are..........84..........acres, comprising part of Lot 494, Group 1, ...Kootenay District..........................
....

The extent and location of the said irrigable lands are further shown by single hatching in the said exhibit "A."

(*h.*) A concise description of that part of the works which are completed (if any) is given in the said exhibit "A."

(*i.*) The other terms and conditions respecting the right herein determined are:—

(1.) Works for the diversion and the carriage of the water as set forth in the exhibit marked "B" which is hereto attached and hereby made a part hereof shall be constructed in a workmanlike manner and to the satisfaction of the Comptroller of Water Rights.

(2.) The said construction shall be commenced or resumed on or before the.................. ....1st..........day of..........May.........., 1914.....

(3.) The said construction shall be prosecuted with due diligence and to the satisfaction of the Comptroller, and shall be completed on or before the..........1st..........day of..........November.........., 1916..

(4.) The whole of the lands described in clause (*g*) hereof shall have been properly prepared for irrigation and shall have been irrigated beneficially from the said works on or before the..........1st..........day of..........November.........., 1916.

(5.) Subject to the provisions of the "Water Act," proof of completion of the said works as required in subclause (3) above, and of the beneficial use of the water under the said conditional licence as required in subclause (4) above, shall be filed in the office of the said Comptroller within sixty days after the dates mentioned in the said subclauses respectively.

(6.) Upon the filing of proof as required in the last preceding subclause, and upon it appearing to the Comptroller of Water Rights that the terms of the "Water Act," amending Acts, the rules and regulations adopted thereunder, and the orders of the Comptroller relating to the said right have been complied with, and upon the surrender for cancellation of the conditional licence, the Comptroller shall issue a final licence in substitution thereof.

(7.) The total quantity of water used under the said licences in any season shall be based upon the number of acres of the above-described lands which are actually and beneficially irrigated; and the quantity of water used per acre shall be limited to such quantity as experience may hereafter indicate to be necessary for the production of crops in the exercise of good husbandry.

(8.) Having due regard to the priority of the said licence, conditional or final, the said owner or occupant shall take and use the said quantity of water, on being so directed by a proper officer of the Water Rights Branch, at intervals of time, under such system of rotation with other water-users on the same stream, or otherwise, as may best meet the requirements of growing crops and at the same time secure an economical use of water.

Form No. 565, W.R.B. (Board Order—Irrigation—Works not completed)—5,000/7/13.

Order No. 854..........

[See over.]

C.

Copy for Comptroller 586

(9.) The owner or lawful occupant of the particular hereditament in respect whereof the said conditional or final licence is to be issued shall be the licensee under the said licences respectively, subject to the provisions of the "Water Act."

(10.)

3. Pending the issue of the licence hereby authorized to be issued, the terms and conditions of this order shall govern the respective rights of the record-holders or claimants affected thereby.

Made and entered this MAY 14 1914 day of ...., 191......

THE BOARD OF INVESTIGATION.

By J. F. Armstrong, *Chairman.*

and E. Davis, *Member.*

NOTE.

1. Under the "Water Act," the holder of a record who has not constructed the works necessary for the diversion of the water and has not put the water to which he is entitled to the beneficial use intended is not entitled to a final licence in substitution for his record until he has filed with the Comptroller of Water Rights the proof required of the completion of the works and of the putting of the water to the beneficial use intended. It is, however, provided that if within the time allotted proof is filed that a part only of the water to which he is entitled has been put to the beneficial use intended, the holder shall be entitled to a final licence in respect of such quantity of water as shall have been so put to a beneficial use. Therefore, if record-holders have, within the time allotted, put a part only of the water to which they are entitled to the beneficial use intended, it is very essential that they should, nevertheless, file proof as to such part within the time required in subclause (5) of clause (*l*) of the above order.

2. Where proof is not filed as required in subclause (5) of said clause (*l*), the "Water Act" requires that "the Comptroller of Water Rights shall, without further notice, demand, or proceeding, declare the said record (or conditional licence, as the case may be) forfeited and the entry of such record cancelled; and the works constructed under such record, if upon Crown lands, shall become forfeited to the Crown, and if not upon Crown lands, shall become forfeited to and become the property of the owner of the land upon which the works are situate."

3. "Before the time fixed for the completion of the works and the putting of the water to beneficial use as aforesaid, an application to extend the time may be made to the Board, but the Board shall not entertain the application nor have any power to extend the time unless the applicant shall satisfy the Board, upon oath, that the applicant has begun and diligently continued the work in perfect good faith, and has been prevented by causes beyond his control from completing the works so ordered to be constructed as aforesaid."

4. The licensee under the licence directed to be issued in the above order shall be entitled, in respect of the privileges therein determined, to the rights, powers, and privileges and shall be subject to the obligations and limitations conferred and imposed by the "Water Act," amending Acts, and the rules and regulations made thereunder.

5. The water is to be used without waste, the use being restricted to the purpose, to the particular lands, and to the terms specified in the above order.

6. The said licence shall be deemed appurtenant to the particular hereditament described in subclause (*g*) of clause 2 of the above order, and shall pass with any demise, devise, conveyance, alienation, or transfer of the said hereditament.

7. An annual fee shall be payable under the said licence in accordance with the fee-schedule and regulations relating thereto adopted from time to time by His Honour the Lieutenant-Governor in Council under the "Water Act."

Form No. 558, W.R.B. (Board Order—Irrigation—Works not completed)—5,000/7/12.

Order No. 854

PROVINCE OF BRITISH COLUMBIA. **WATER RIGHTS BRANCH.** **DEPARTMENT OF LANDS.**

CONDITIONAL WATER LICENCE.

(For an Irrigation Purpose.)

WHEREAS the Board of Investigation, constituted and acting under the "Water Act, 1914," duly held an investigation respecting the water set out in the order No. 950, duplicate of which is hereto attached, and in the said order directed the Comptroller of Water Rights to issue a conditional licence in respect of the particular record and claim respectively set out therein, and further therein named the terms and conditions to be embodied in the said licence:

NOW, THEREFORE, I, Comptroller of Water Rights of the Province of British Columbia, in pursuance of the said order and in conformity with the "Water Act, 1914," issue this conditional licence, and declare the rights in and to the use of the said waters held under the said record in respect of the said claim to be such as are set out in the said order; and the terms and conditions of the said order and any exhibits which are therewith incorporated are hereby incorporated herewith and form a part hereof. This licence is appurtenant to Isidore's Ranch Indian Reserve (No.4 Kootenay).

File [illegible] 1925

Made and entered this 25th day of January, 1922

E. A. Cleveland
Comptroller of Water Rights.

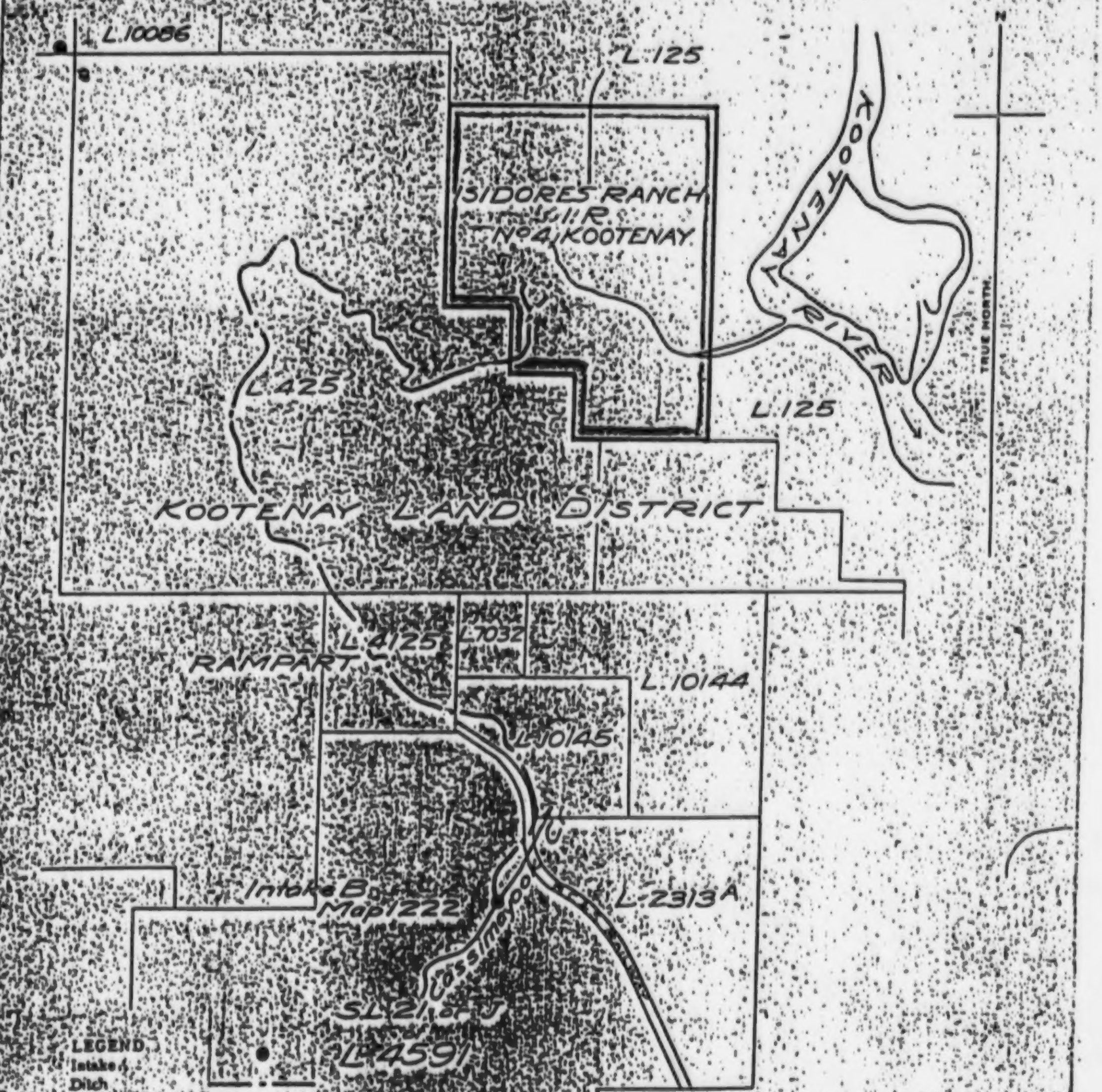
No. 7358

Form No. 1099, W.R.B. (Licence in respect of Board Order)—[illegible]

ORIGINAL

CRANBROOK WATER DISTRICT.

Scale 40 Chains to 1 Inch.


L.10086
L.125
ISIDORES RANCH
I.R.
No 4, KOOTENAY.
KOOTENAY RIVER
TRUE NORTH
N
L.425
L.125
KOOTENAY LAND DISTRICT
L.4125
L.7032
RAMPART
L.10144
L.10145
Intake B
Map 1222
L.2313A
Cassimayooks
SL 21
L.4591

LEGEND.
Intake
Ditch
Road

The boundaries of the land to which this licence is appurtenant are shown shaded. 200·0 acres within the said boundaries are claimed to be irrigable.

RHL
COH

Description of Works constructed:-
Ditch.

Signature J S Alexander
J F Shane 25/1/14
C.L. 7358 B.O. 950
File 5-21 I.R.

EXHIBIT A

PROVINCE OF BRITISH COLUMBIA.

WATER RIGHTS BRANCH.

DEPARTMENT OF LANDS.

DETERMINATION AND ORDER.

(FOR A CONDITIONAL WATER LICENCE FOR IRRIGATION PURPOSES.)

BY THE BOARD OF INVESTIGATION
UNDER THE "WATER ACT, 1914."

In the Matter of the Claims of the Department of Indian Affairs to Rights to the Use of the Waters

of Cassimayook Creek, a tributary of Kootenay River,

in the neighbourhood of Cranbrook, in the

Cranbrook Water District.

NOW, on the 26th day of August, 1921, the above-entitled matter coming on regularly for final hearing before the Board of Investigation; due notice having been given of the time and place of hearing; all and every the steps required under the Act to be taken by the Board before a determination of the said rights and claims should be made having been taken; all evidence, testimony, and proofs filed with the Board or presented in the above-entitled matter having been duly considered; a quorum of the Board being present at the hearing; and the Board being now fully advised in the premises, determines with respect to the said claims (which are on file and designated as Indian File No. 5-21-1) that a valid water record affecting the said claim was made under authority of an Act passed prior to the 12th day of March, 1909, and that under the said water record the Kootenay tribe or band of Indians was granted a right to take and use water from Cassimayook Creek, a tributary of Kootenay River, for irrigation and domestic purposes on the Isidore's Ranch Indian Reserve, being Reserve No.4 of the said tribe or band.

Form 358, W.R.B.—2,000-12-28.

Order No. 950.

ORIGINAL

2. The claims of the Department of Indian Affairs with respect to the said waters are allowed by the Board to the extent hereinafter specified, and the Comptroller of Water Rights is hereby directed to issue a conditional licence in respect thereof embodying the following terms and conditions:—

(*a.*) The sources of the water supply is Cassimayook Creek, a tributary of Kootenay River.

(*b.*) The points of diversion from the said sources are located as shown in the exhibit marked "A" hereto attached, which is incorporated herewith and made a part hereof, the original of which exhibit is on file in the office of the Comptroller of Water Rights, Parliament Buildings, Victoria, B.C.

(*c.*) The date ~~for~~ from which the said licence shall take precedence is 14th February, 1889.

(*d.*) The purpose for which the water is to be used is irrigation.

(*e.*) The maximum quantity of water per annum which may be used when irrigation is extended to all the lands mentioned in subclause (*g*) of this clause, until lawfully altered, is 600 acre-feet, and the maximum quantity of water which may be used per annum on each acre actually irrigated until lawfully altered is 3 acre-feet: Provided that where sources of supply other than those named in subclause (*a*) hereof are drawn upon for the irrigation of a part or all of the same lands as are described in subclause (*g*) hereof, the maximum quantity of water which may be used under the licence hereby directed to be issued shall be reduced by the quantity which the licensee may be entitled to use from said other sources of supply: Provided further that when the Engineer of the Water District has accumulated the requisite hydrographic data for determining to the satisfaction of the Comptroller the *pro rata* part of the said total quantity to be apportioned to the licence hereby directed to be issued, the Comptroller shall require the surrender of the licence, and shall amend the same by stating the particular quantity to which the licensee is entitled from the particular sources named therein.

(*f.*) The period of the year during which the water may be used is between the first day of April and the thirtieth day of September.

(*g.*) The water may be used on Isidores Ranch I.R. (No.4 Kootenay) of which 200 acres are said to be irrigable. The extent and location of the said irrigable lands are more particularly shown in the said Exhibit "A."

(*h.*) The works which are required to be constructed before the issue of a final licence are the clearing, stumping, and levelling of the irrigable lands on the said reserve and the additional works required for conducting thereto the maximum quantity of water hereby authorized to be diverted.

(*i.*) The execution of the said works shall be commenced or resumed on or before the first day of June, 1924, and shall be prosecuted with due diligence and in a workmanlike manner and to the satisfaction of the Comptroller of Water Rights.

(*j.*) The said works shall be completed, and the quantity of water to which the licensee is entitled beneficially used for the purpose set out in the licence on or before the first day of November, 1930.

(*k.*) Before any change is made in the said works which would be a material deviation from the plans as approved or the works as accepted by the Comptroller, plans of such proposed change must be filed with the Comptroller and approved by him.

Board Order No.950.

ORIGINAL

(*l.*) The nature and the extent of the incidental uses permitted under the licence are: For domestic purposes, the use of 2,000 gallons a day of water from any or all the said sources of supply during the whole of the year; and for storage purpose, such quantity of water (not exceeding ---------------------------- acre-feet) as, together with the natural flow-water used hereunder, will be necessary to secure to the licensee the quantity granted hereunder. The water which may be so stored shall be that of ------------------------- and it may be stored (accumulated) in a reservoir at -- between the first day of October in each year and the first day of June in the succeeding year, and may be used as provided for in subclauses (*d*), (*e*), and (*f*) of this clause, but such uses shall not enlarge the quantity of water allowed by subclause (*c*) hereof.

(*m.*) The Board may extend the time for the commencement, resumption, or completion of the execution of the works on being satisfied that it is in the public interest and that it will not injuriously affect the rights of any licensee.

(*n.*) The licence shall not in any way be deemed to be a final licence for the use of water, but shall have the effect only of a conditional licence issued under Part V. of the "Water Act, 1914," and shall be subject to all the provisions of the said *Act*, including the filing of proof of the completion of the said works and the putting of the water to such beneficial use within the time limited by the provisions of section 117 of the said Act.

3. Pending the issue of the licence hereby authorized to be issued, the terms and conditions of this order shall govern the respective rights of the record-holders or claimants affected thereby.

Made and entered this 25th day of January, 192 4

THE BOARD OF INVESTIGATION.

By J. S. Alexander, ~~Chairman~~ Member.

and J. B. Lane, *Member.*

Form 587, W.R.B.—2,000-12-20.

Order No. 950

ORIGINAL

WATER ACT

Section 74

IN THE MATTER OF Conditional Water Licence 7358, dated the 25th January, 1924, granted to the Department of Indian Affairs, authorizing the diversion and use of water from Cassimayook creek for irrigation purpose on Isidore's Ranch Indian Reserve (No.4 Kootenay).

....

YOU ARE HEREBY NOTIFIED that you have failed to prove to my satisfaction:

(a) that the construction of the works authorized under the above mentioned licence was begun within the time fixed therefor, and

(b) that the construction of the said works was prosecuted with due diligence.

AND YOU ARE FURTHER NOTIFIED that on the 22nd day of December, 1934, I propose to cancel the said Conditional Water Licence No. 7358.

DATED at Victoria, B.C. this 20th day of November, 1934.

J. C. MacDonald

Comptroller of Water Rights.

File 5-21-1.

TO: Supt.-Gen. of Indian Affairs,
Webb.
Perry.

WATER ACT

Section 74.

CANCELLATION ORDER

BEFORE THE COMPTROLLER OF WATER RIGHTS:

In accordance with the notice of proposed cancellation dated 20th November, 1934, Conditional Water Licence 7358 is hereby cancelled.

DATED at Victoria, B.C. this 12th day of March, 1935.

J. Macdonald

Comptroller of Water Rights.

File 5-21-1.

PROVINCE OF BRITISH COLUMBIA. WATER RIGHTS BRANCH. **DEPARTMENT OF LANDS.**

CONDITIONAL WATER LICENCE.

(For an Irrigation Purpose.)

WHEREAS the Board of Investigation, constituted and acting under the "Water Act, 1914," duly held an investigation respecting the water set out in the order No. 1289, duplicate of which is hereto attached, and in the said order directed the Comptroller of Water Rights to issue a conditional licence in respect of the particular record and claim respectively set out therein, and further therein named the terms and conditions to be embodied in the said licence:

NOW, THEREFORE, I, Comptroller of Water Rights of the Province of British Columbia, in pursuance of the said order and in conformity with the "Water Act, 1914," issue this conditional licence, and declare the rights in and to the use of the said waters held under the said record in respect of the said claim to be such as are set out in the said order; and the terms and conditions of the said order and any exhibits which are therewith incorporated are hereby incorporated herewith and form a part hereof. This licence is appurtenant to St. Mary's Indian Reserve (No.1 Kootenay).

Made and entered this 25th day of January, 1924

E. A. Cleveland
Comptroller of Water Rights.

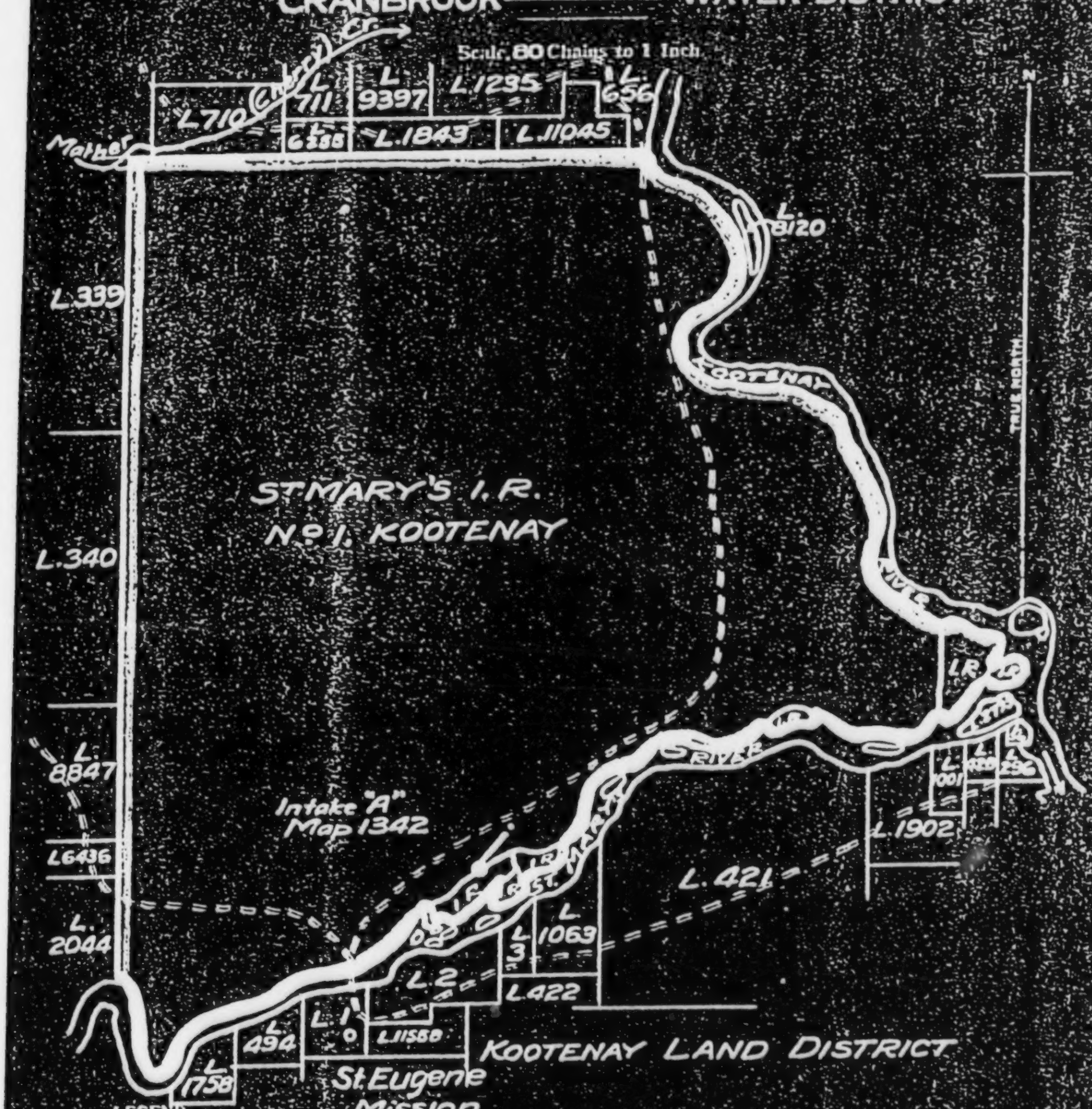
No. 7359.

Form No. 1006, W.R.B. (Licence in respect of Board Order)—1,000-7-23—304.

Copy for Comptroller

CRANBROOK WATER DISTRICT

Scale 80 Chains to 1 Inch.


Cherry Cr.
Mather
L.710
L. 711
L. 9397
L.1235
L. 656
L. 6388
L.1843
L.11045
L. 8120
L.339
L.340
L. 8847
L6436
L. 2044
ST. MARY'S I.R. No. 1. KOOTENAY
KOOTENAY RIVER
ST. MARY'S RIVER
TRUE NORTH
N
I.R.
Intake "A" Map 1342
L.1902
L.1001
L.296
L. 421
L. 1063
L. 3
L. 2
L.422
L. 1
L.11558
L. 494
L. 1758
KOOTENAY LAND DISTRICT
St. Eugene Mission

LEGEND

Intake	●
Ditch	—•—
Road	- - - - - -

The boundaries of the land to which this licence is appurtenant are shown shaded. 1075.0 acres within the said boundaries are claimed to be irrigable.

R.H.

Description of Works constructed:- Ditch.

Signature J.S. Alexander

J.E. Lane 25/1/24

C.L. 7359 B.O. 1289

File 3-21-I.R.

EXHIBIT "A"

PROVINCE OF
BRITISH COLUMBIA.

WATER RIGHTS BRANCH.

DEPARTMENT OF
LANDS.

DETERMINATION AND ORDER.

(FOR A CONDITIONAL WATER LICENCE FOR IRRIGATION PURPOSES.)

BY THE BOARD OF INVESTIGATION
UNDER THE "WATER ACT, 1914."

In the Matter of the Claims of the Department of Indian Affairs to Rights to the Use of the Waters

of St. Mary's River

in the neighbourhood of Cranbrook, in the

Cranbrook Water District.

NOW, on the 26th day of August, 1921, the above-entitled matter coming on regularly for final hearing before the Board of Investigation; due notice having been given of the time and place of hearing; all and every the steps required under the Act to be taken by the Board before a determination of the said rights and claims should be made having been taken; all evidence, testimony, and proofs filed with the Board or presented in the above-entitled matter having been duly considered; a quorum of the Board being present at the hearing; and the Board being now fully advised in the premises, determines with respect to the said claims (which are on file and designated as Indian File No. 3-21-1) that a valid water record affecting the said claim was made under authority of an Act passed prior to the 12th day of March, 1909; and that under the said water record the Kootenay tribe or band of Indians was granted a right to take and use water from St. Mary's River for irrigation and domestic purposes on the St. Mary's Indian Reserve, being Reserve No. 1 of the said tribe or band.

1359

Form 386, W.R.B.—2,000-12-20.

Order No. 1289

Copy for Comptroller

2. The claims of the Department of Indian affairs with respect to the said waters are allowed by the Board to the extent hereinafter specified, and the Comptroller of Water Rights is hereby directed to issue a conditional licence in respect thereof embodying the following terms and conditions:—

(a.) The sources of the water supply is St. Mary's River, a tributary of Kootenay River.

(b.) The points of diversion from the said sources is ~~are~~ located as shown in the exhibit marked "A" hereto attached, which is incorporated herewith and made a part hereof, the original of which exhibit is on file in the office of the Comptroller of Water Rights, Parliament Buildings, Victoria, B.C.

(c.) The date from ~~for~~ which the said licence shall take precedence is 23rd September, 1896.

(d.) The purpose for which the water is to be used is irrigation.

(e.) The maximum quantity of water per annum which may be used when irrigation is extended to all the lands mentioned in subclause (g) of this clause, until lawfully altered,

is 2688 acre-feet, and the maximum quantity of water which may be used per annum on each acre actually irrigated until lawfully

altered is 2½ acre-feet: Provided that where sources of supply other than that ~~those~~ named in subclause (a) hereof are drawn upon for the irrigation of a part or all of the same lands as are described in subclause (g) hereof, the maximum quantity of water which may be used under the licence hereby directed to be issued shall be reduced by the quantity which the licensee may be entitled to use from said other sources of supply: Provided further that when the Engineer of the Water District has accumulated the requisite hydrographic data for determining to the satisfaction of the Comptroller the *pro rata* part of the said total quantity to be apportioned to the licence hereby directed to be issued, the Comptroller shall require the surrender of the licence, and shall amend the same by stating the particular quantity to which the licensee is entitled from the particular sources named therein.

(f.) The period of the year during which the water may be used is between the first day of April and the thirtieth day of September.

(g.) The water may be used on the south easterly portion of St. Mary's Indian Reserve (No.1 Kootenay) of which 1075 acres are said to be irrigable. The extent and location of the said irrigable lands are more particularly shown in the said Exhibit "A".

(h.) The works which are required to be constructed before the issue of a final licence are the clearing, stumping, and levelling of the irrigable lands on the said reserve and the additional works required for conducting thereto the maximum quantity of water hereby authorized to be diverted.

(i.) The execution of the said works shall be commenced or resumed on or before the first day of June, 1924, and shall be prosecuted with due diligence and in a workmanlike manner and to the satisfaction of the Comptroller of Water Rights.

(j.) The said works shall be completed and the quantity of water to which the licensee is entitled beneficially used for the purpose set out in the licence on or before the first day of November, 1930.

7359

(k.) Before any change is made in the said works which would be a material deviation from the plans as approved or the works as accepted by the Comptroller, plans of such proposed change must be filed with the Comptroller and approved by him.

Board Order No.1289.

Copy for Comptroller

(*l.*) The nature and the extent of the incidental uses permitted under the licence are: For domestic purposes, the use of 30,000 gallons a day of water from any or all the said sources of supply during the whole of the year; and for storage purpose, such quantity of water (not exceeding ---------- acre-feet) as, together with the natural flow-water used hereunder, will be necessary to secure to the licensee the quantity granted hereunder. The water which may be so stored shall be that of ---------- and it may be stored (accumulated) in a reservoir at ---------- between the first day of October in each year and the first day of June in the succeeding year, and may be used as provided for in subclauses (*d*), (*e*), and (*f*) of this clause, but such uses shall not enlarge the quantity of water allowed by subclause (*c*) hereof.

(*m.*) The Board may extend the time for the commencement, resumption, or completion of the execution of the works on being satisfied that it is in the public interest and that it will not injuriously affect the rights of any licensee.

(*n.*) The licence shall not in any way be deemed to be a final licence for the use of water, but shall have the effect only of a conditional licence issued under Part V. of the "Water Act, 1914," and shall be subject to all the provisions of the said Act, including the filing of proof of the completion of the said works and the putting of the water to such beneficial use within the time limited by the provisions of section 117 of the said Act.

3. Pending the issue of the licence hereby authorized to be issued, the terms and conditions of this order shall govern the respective rights of the record-holders or claimants affected thereby.

Made and entered this 25th day of January, 1924

THE BOARD OF INVESTIGATION.

By "J.S.T.Alexander", ~~*Chairman.*~~ Member.

and "J.E.Lane", *Member.*

ENTERED ON
Map No. 1342 + 1200
By RW

Form 387, W.R.B.—2,000-12-20.

Order No. 1289.

Copy for Comptroller

WATER RIGHTS BRANCH
DEPARTMENT OF LANDS AND FORESTS

ORDER

WATER ACT

Section 13

File No. 3-21-1

The provisions of the B. C. Water Act having been complied with and being satisfied that no person's rights will be affected, I hereby extend the time for the completion of the works and for making beneficial use of the water authorized under Conditional Water Licence No. 7359 , St. Marys River to the 31st day of December, 1957.

V. Raudsepp,
Deputy Comptroller of Water Rights.

DATED at Victoria, B. C.,
this 12th day of April, 1957.

W.R.B. 42

WATER RIGHTS BRANCH
DEPARTMENT OF LANDS AND FORESTS

ORDER

WATER ACT

Section 13

File No. 3-21-1

The provisions of the B. C. Water Act having been complied with and being satisfied that no person's rights will be affected, I hereby extend the time for the completion of the works and for making beneficial use of the water authorized under Conditional Water Licence No. 7359 , St. Marys River to the 31st day of December, 1960.

V. Raudsepp

V. Raudsepp
Deputy Comptroller of Water Rights.

DATED at Victoria, B. C.,
this 24th day of March , 1958.

W.R.B. 42

PROVINCE OF BRITISH COLUMBIA. **WATER RIGHTS BRANCH.** DEPARTMENT OF LANDS.

CONDITIONAL WATER LICENCE.

(For an Irrigation Purpose.)

WHEREAS the Board of Investigation, constituted and acting under the "Water Act, 1914," duly held an investigation respecting the water set out in the order No. 1304, duplicate of which is hereto attached, and in the said order directed the Comptroller of Water Rights to issue a conditional licence in respect of the particular record and claim respectively set out therein, and further therein named the terms and conditions to be embodied in the said licence:

NOW, THEREFORE, I, Comptroller of Water Rights of the Province of British Columbia, in pursuance of the said order and in conformity with the "Water Act, 1914," issue this conditional licence, and declare the rights in and to the use of the said waters held under the said record in respect of the said claim to be such as are set out in the said order; and the terms and conditions of the said order and any exhibits which are therewith incorporated are hereby incorporated herewith and form a part hereof. This licence is appurtenant to the St. Mary's Indian Reserve (No.1 Kootenay).

Cancelled - Dec. 31, 1941

Made and entered this 25th day of January, 1924

E. A. Cleveland
Comptroller of Water Rights.

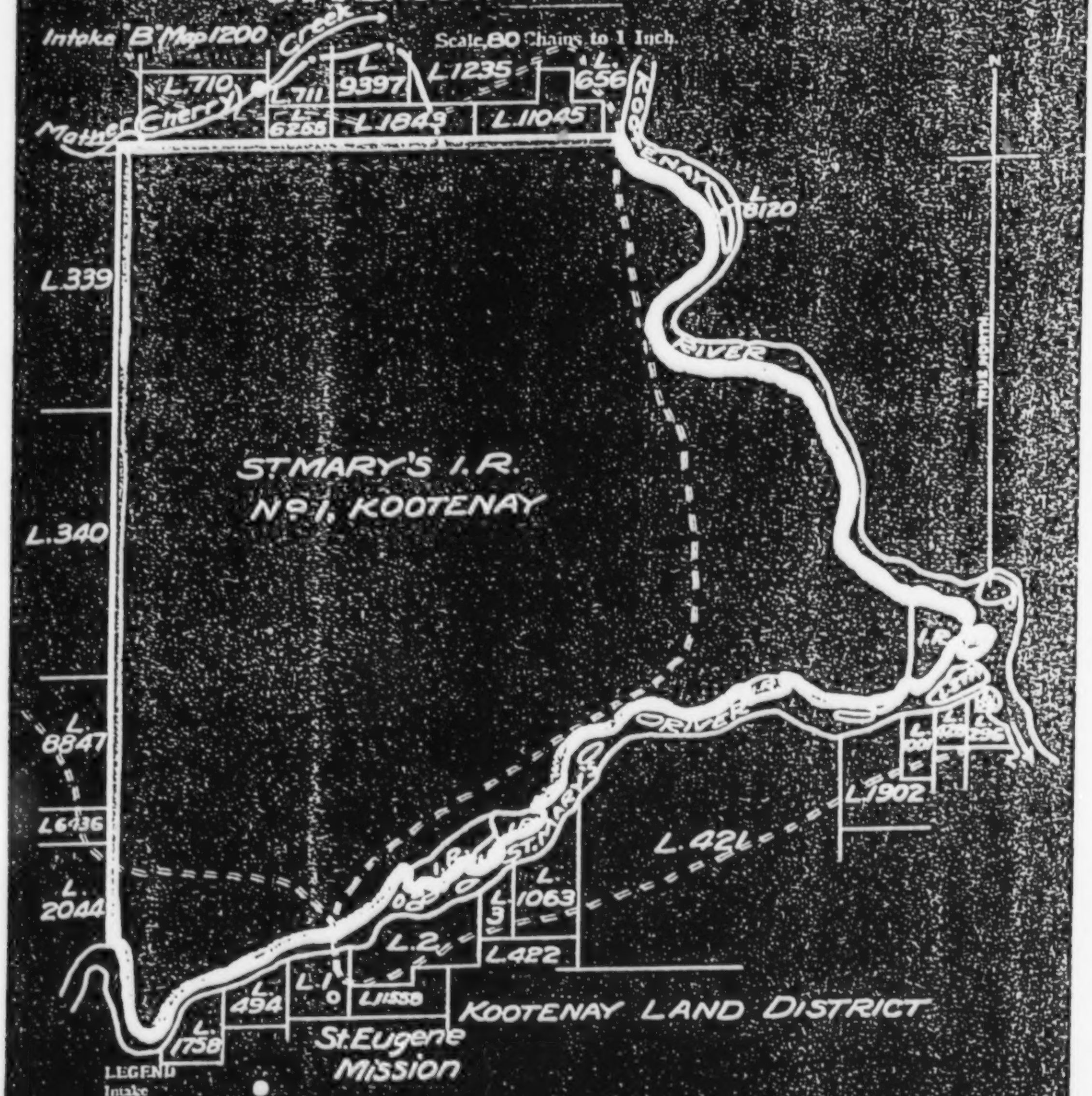
No. 7360

Form No. 1006, W.R.B. (Licence in respect of Board Order)—1,500-1-23—[illegible]

Copy for Comptroller.

CRANBROOK ——— WATER DISTRICT

Scale 80 Chains to 1 Inch.


Intake 'B' Map 1200
Cherry Creek
Mather
L.710
L.711
L. 6268
L. 9397
L.1849
L.1235
L. 656
L.11045
KOOTENAY RIVER
L. 8120
TRUE NORTH
N
L.339
L.340
ST. MARY'S I.R.
No 1. KOOTENAY
L. 8847
L6436
L. 2044
ST. MARY'S RIVER
I.R.
L.1902
L.426
L. 1063
L. 3
L.2
L.422
L. 1
L.494
L.11558
L. 1758
KOOTENAY LAND DISTRICT
St. Eugene Mission

LEGEND

Intake	●
Ditch	—— • ——
Road	= = = = = =

The boundaries of the land to which this licence is appurtenant are shown shaded. 288·0 acres within the said boundaries are claimed to be irrigable.

Description of Works to be constructed:- Ditch from ditch constructed under F.L.3642.

Signature J.S. Alexander
J.B. Laine 25/1/24

C.L. 7360 B.O. 1504
File 4-21-I.R.

R.H.K.
C.H.

EXHIBIT "A"

PROVINCE OF
BRITISH COLUMBIA

WATER RIGHTS BRANCH.

DEPARTMENT OF
LANDS.

DETERMINATION AND ORDER.

(FOR A CONDITIONAL WATER LICENCE FOR IRRIGATION PURPOSES.)

BY THE BOARD OF INVESTIGATION
UNDER THE "WATER ACT, 1914."

In the Matter of the Claims of the Department of Indian Affairs to Rights to the Use of the Waters

of Mather (Cherry) Creek, a tributary of Kootenay River,

in the neighbourhood of Cranbrook, in the

Cranbrook Water District.

NOW, on the 26th day of August, 1921, the above-entitled matter coming on regularly for final hearing before the Board of Investigation; due notice having been given of the time and place of hearing; all and every the steps required under the Act to be taken by the Board before a determination of the said rights and claims should be made having been taken; all evidence, testimony, and proofs filed with the Board or presented in the above-entitled matter having been duly considered; a quorum of the Board being present at the hearing; and the Board being now fully advised in the premises, determines with respect to the said claims (which are on file and designated as Indian File No. 4-21-1) that a valid water record affecting the said claim was made under authority of an Act passed prior to the 12th day of March, 1909; and that under the said water record the Kootenay tribe or band of Indians was granted a right to take and use water from Mather (formerly Cherry) Creek, a tributary of the Kootenay River, for irrigation and domestic purposes on the St. Mary's Indian Reserve, being Reserve No. 1 of the said tribe or band.

7360

Form 586, W.R.B.—2,000-12-20.

Order No. 1304.

Copy for Comptroller.

2. The claims of the Department of Indian affairs with respect to the said waters are allowed by the Board to the extent hereinafter specified, and the Comptroller of Water Rights is hereby directed to issue a conditional licence in respect thereof embodying the following terms and conditions:—

(*a.*) The sources of the water supply is Mather (Cherry) Creek, a tributary of Kootenay River.

(*b.*) The points of diversion from the said sources ~~are~~ is located as shown in the exhibit marked "A" hereto attached, which is incorporated herewith and made a part hereof, the original of which exhibit is on file in the office of the Comptroller of Water Rights, Parliament Buildings, Victoria, B.C.

(*c.*) The date ~~for~~ from which the said licence shall take precedence is 23rd September, 1896.

(*d.*) The purpose for which the water is to be used is irrigation.

(*e.*) The maximum quantity of water per annum which may be used when irrigation is extended to all the lands mentioned in subclause (*g*) of this clause, until lawfully altered, is 672 acre-feet, and the maximum quantity of water which may be used per annum on each acre actually irrigated until lawfully altered is 2½ acre-feet: Provided that where sources of supply other than ~~those~~ that named in subclause (*a*) hereof are drawn upon for the irrigation of a part or all of the same lands as are described in subclause (*g*) hereof, the maximum quantity of water which may be used under the licence hereby directed to be issued shall be reduced by the quantity which the licensee may be entitled to use from said other sources of supply: Provided further that when the Engineer of the Water District has accumulated the requisite hydrographic data for determining to the satisfaction of the Comptroller the *pro rata* part of the said total quantity to be apportioned to the licence hereby directed to be issued, the Comptroller shall require the surrender of the licence, and shall amend the same by stating the particular quantity to which the licensee is entitled from the particular sources named therein.

(*f.*) The period of the year during which the water may be used is between the first day of April and the thirtieth day of September.

(*g.*) The water may be used on the northerly portion of St. Mary's Indian Reserve (No.1 Kootenay) of which 269 acres are said to be irrigable. The extent and location of the said irrigable lands are more particularly shown in the said Exhibit "A."

(*h.*) The works which are required to be constructed before the issue of a final licence are the clearing, stumping, and levelling of the irrigable lands on the said reserve and the additional works required for conducting thereto the maximum quantity of water hereby authorized to be diverted.

(*i.*) The execution of the said works shall be commenced or resumed on or before the first day of June, 1924, and shall be prosecuted with due diligence and in a workmanlike manner and to the satisfaction of the Comptroller of Water Rights.

(*j.*) The said works shall be completed and the quantity of water to which the licensee is entitled beneficially used for the purpose set out in the licence on or before the first day of November, 1930.

7360

(*k.*) Before any change is made in the said works which would be a material deviation from the plans as approved or the works as accepted by the Comptroller, plans of such proposed change must be filed with the Comptroller and approved by him.

Board Order No. 1304.

Copy for Comptroller

(*l.*) The nature and the extent of the incidental uses permitted under the licence are: For domestic purposes, the use of 30,000 gallons a day of water from any or all the said sources of supply during the whole of the year; and for storage purpose, such quantity of water (not exceeding ------------------------- acre-feet) as, together with the natural flow-water used hereunder, will be necessary to secure to the licensee the quantity granted hereunder. The water which may be so stored shall be that of ------------------ and it may be stored (accumulated) in a reservoir at -- -- between the first day of October in each year and the first day of June in the succeeding year, and may be used as provided for in subclauses (*d*), (*e*), and (*f*) of this clause, but such uses shall not enlarge the quantity of water allowed by subclause (*c*) hereof.

(*m.*) The Board may extend the time for the commencement, resumption, or completion of the execution of the works on being satisfied that it is in the public interest and that it will not injuriously affect the rights of any licensee.

(*n.*) The licence shall not in any way be deemed to be a final licence for the use of water, but shall have the effect only of a conditional licence issued under Part V. of the "Water Act, 1914," and shall be subject to all the provisions of the said Act, including the filing of proof of the completion of the said works and the putting of the water to such beneficial use within the time limited by the provisions of section 117 of the said Act.

3. Pending the issue of the licence hereby authorized to be issued, the terms and conditions of this order shall govern the respective rights of the record-holders or claimants affected thereby.

Made and entered this 25th day of January, 1924

THE BOARD OF INVESTIGATION.

By "J.S.T.Alexander" ~~Chairman.~~ Member.

and "J.E.Lane", *Member.*

ENTERED ON
Map No. 1240 + 1342
By RHW
Form-487, W.R.B.—2,000-12-2

Order No. 1304.

Copy for Comptroller.

PROVINCE OF BRITISH COLUMBIA.

WATER RIGHTS BRANCH.

DEPARTMENT OF LANDS.

CONDITIONAL WATER LICENCE.

For Domestic purpose.

Appurtenant to that part of Lot 1, Group 1, Kootenay District, on which is situate St. Eugene Indian Industrial School and appendages thereto.

WHEREAS SUPERINTENDENT-GENERAL OF INDIAN AFFAIRS as owner or lawful occupant of the land, mine, or undertaking hereinafter specified has applied for a licence to take and use water in the manner hereinafter set out, and has taken all the steps required of such applicant under the "Water Act," prior to the issue of this licence, and is, under the said Act, entitled thereto:

Now, therefore, in pursuance of the said Act, this conditional licence is issued, granting the licensee hereunder the right to take and use water under the following terms and conditions:—

(*a.*) The source of the water-supply is Kratz Springs, located as shown ~~a tributary of~~ on the Exhibit marked "A" hereto attached.

(*b.*) The point of diversion from the stream is located as shown in the exhibit marked "A" hereto attached, which is incorporated herewith and made a part hereof.

(*c.*) The date from which this licence and the right to take and use water thereunder shall take precedence is 17th August, 1931.

(*d.*) The water is to be used for Domestic purpose and incidentally for ----- purpose.

(*e.*) The maximum quantity of water which may be used at the place of use is:—

Superseded by 9356
Final Licence

For Domestic purpose 15,000 gallons a day

For ---- purpose ----

and an additional amount may be diverted to provide against reasonable loss by seepage and evaporation in conveyance from the point of diversion to the place of use.

(*f.*) The period of the year during which the water may be used is the whole year

(*g.*) The area and description of the lands or mines upon which the water may be used are that part of Lot 1, Group 1, Kootenay District, on which is situate St. Eugene Indian Industrial School and appendages thereto.

which area and description are more particularly shown in the said exhibit "A."

File Number 0101918.

Licence Number 11055

W.R.B. 1002 (1)—1M-1280-3349. (Conditional Licence—Domestic, Mining, Miscellaneous, etc.)

(*h.*) The works which are required to be constructed consist of ~~all the works set out in the exhibit marked "B" hereto attached, which is incorporated herewith and made a part hereof.~~ Tanks, pump and pipe.

(*i.*) The construction of the said works shall be commenced on or before the 31st day of December, 1931, and shall be prosecuted with due diligence and in a workmanlike manner and to the satisfaction of the Comptroller of Water Rights.

(*j.*) The said construction shall be completed and the water beneficially used for the purpose set out in this licence on or before the 30th day of September, 1933.

(*k.*) ....

(*l.*) Before any change is made in the said works which would be a material deviation from the plans as approved or the works as accepted by the Comptroller, plans of such proposed change must be filed with the Comptroller and approved by him.

(*m.*) This licence shall not in any way be deemed to be a final licence for the use of water, but shall have the effect only of a conditional licence issued under Part II. of the "Water Act," and shall be subject to all the provisions of said Act, including the filing of proof of the completion of the said works and the putting of the water to such beneficial use within the time limited by the provisions of section 74 of the said Act.

Issued this 6th day of November, 1931.

J. Macdonald

Comptroller of Water Rights.

File Number 0101918.

Licence Number 11955

N.B.—In order that statements of rentals due the Province shall be sent to the proper party, notice of the date of any change in the ownership of the lands, mines, or undertaking specified in this licence should be filed with the Comptroller of Water Rights by the new owner.

W.R.B. 1002 (2)—1M-1230-2349. (Conditional Licence—Domestic, Mining, Miscellaneous, etc.)

12-20

Tw

ORIGINAL

3 Copies

15

PROVINCE OF
BRITISH COLUMBIA.

WATER RIGHTS BRANCH.

DEPARTMENT OF
LANDS.

EXHIBIT "B"

(APPROVAL OF PLANS AND LIST OF WORKS TO BE CONSTRUCTED)

The works which are accepted as necessary and suitable for the taking and (or) using of the water under the above-mentioned licence, and which are more fully set out in the plans and specifications filed in the office of the Comptroller of Water Rights numbered

84027 B

as altered, amended, or limited by supplemental plans and specifications numbered

or in letters or other documents referred to as

which plans and specifications as thus altered, amended, or limited are hereby approved, are as follows:—

Tank, pump & pipe

WATER RIGHTS BRANCH,
LANDS DEPT.
OCT 10 1931
ENGINEER'S OFFICE,
VICTORIA, B. C.

File : [illegible]

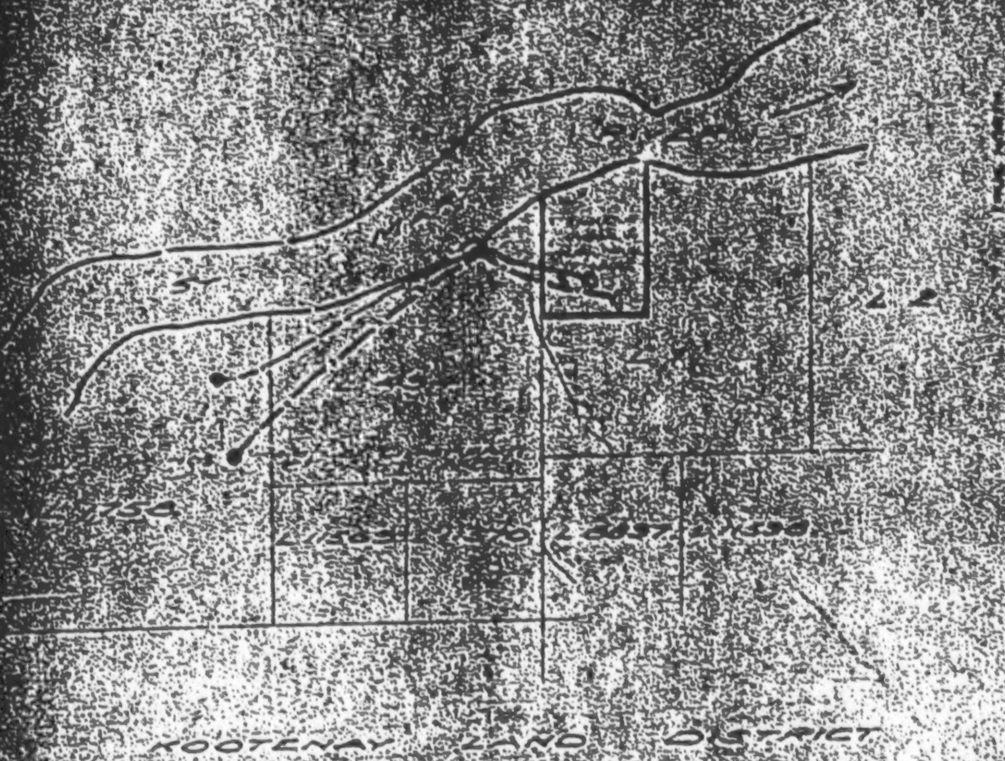
Comptroller of Water Rights

[illegible]

British Columbia

To [illegible]

CRANBROOK WATER DISTRICT



150
L1503
L6037
L1590
2 2
KOOTENAY LAND DISTRICT

The boundaries of the land in which the works & appurtenances are shown thus

Signature

Date [illegible]

EXHIBIT A

WATER RESOURCES SERVICE
WATER RIGHTS BRANCH

DEPARTMENT OF LANDS, FORESTS, AND WATER RESOURCES

THE PROVINCE OF BRITISH COLUMBIA—WATER ACT

CONDITIONAL WATER LICENCE

Department of Transport,
Real Estate Branch of Room 407-326 Howe Street, Vancouver 1, B.C.

is/are hereby authorized to divert and use water as follows:—

(*a*) The source(s) of the water-supply is/are St. Mary River.

(*b*) The point(s) of diversion is/are located as shown on the attached plan.

(*c*) The date from which this licence shall have precedence is 24th January, 1966.

(*d*) The purpose for which the water is to be used is industrial.

(*e*) The maximum quantity of water which may be diverted is 50,000 gallons a day, and such additional quantity as the Engineer may from time to time determine should be allowed for losses.

(*f*) The period of the year during which the water may be used is the whole year.

(*g*) The land upon which the water is to be used and to which this licence is appurtenant is Lot 1 of Kootenay Indian Reserve No.1, Kootenay District, filed under D.F. 28552, Nelson Land Registry Office.

(*h*) The works authorized to be constructed are intake, sump, pump, reservoir and pipe, and they shall be located approximately as shown on the attached plan.

(*i*) The construction of the said works shall be commenced on or before the 28th day of February, 1967, and shall be completed and the water beneficially used on or before the 31st day of December, 1968.

[illegible]
Map No. 1342
By B.M. BD.

H. D. DeBeck,
Comptroller of Water Rights.

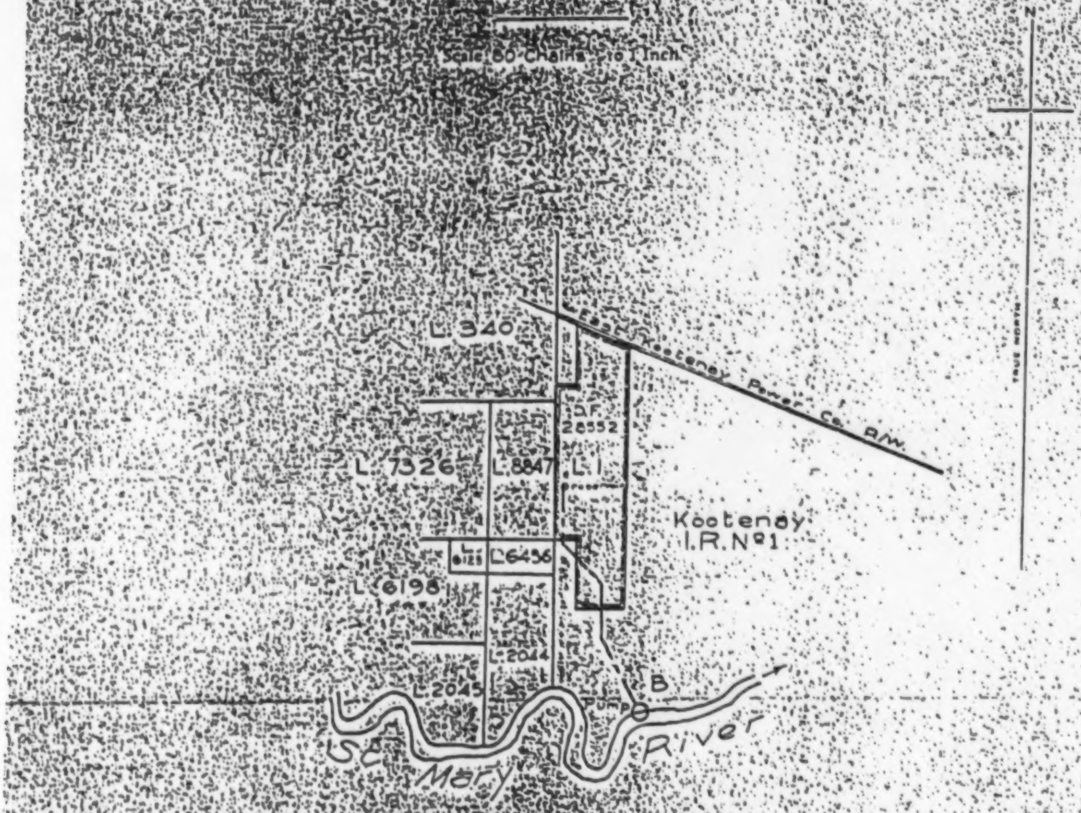
File No. 0267159 Date issued: 15 September 1966 Conditional Licence No. 31430

British Columbia

CRANBROOK WATER DISTRICT

KOOTENAY DISTRICT

Scale 60 Chains to 1 Inch



L. 340
East Kootenay Power Co. R/W.
D.F. 28552
L. 7326
L. 8847
L. 1
Kootenay I.R. No 1
L. 6123
L. 6456
L. 6198
L. 2044
L. 2045
B
Pump
St. Mary River
True North
N

LEGEND
Point of Diversion ○
W.R. Map 1342
Pipe — — —

The boundaries of the land to which this licence is appurtenant are shown thus: ————

Signature

Date Sept. 15, 1966

CL 31430

File 0267159

EXHIBIT A 4

WATER RESOURCES SERVICE
WATER RIGHTS BRANCH

DEPARTMENT OF
ENVIRONMENT

THE PROVINCE OF BRITISH COLUMBIA—WATER ACT

CONDITIONAL WATER LICENCE

Department of Indian and Northern Affairs of P.O. Box 10061, Pacific Centre Ltd., 700 West Georgia Street, Vancouver, B.C. V7Y 1C1

is/are hereby authorized to divert and use water as follows:—

(*a*) The source(s) of the water-supply is/are Joseph Creek.

(*b*) The point(s) of diversion is/are located as shown on the attached plan.

(*c*) The date from which this licence shall have precedence is 4th December, 1868.

(*d*) The purpose for which the water is to be used is irrigation.

(*e*) The maximum quantity of water which may be diverted is 110 acre feet per annum, and such additional quantity as the Engineer may from time to time determine should be allowed for losses.

(*f*) The period of the year during which the water may be used is 1st April to 30th September.

(*g*) The land upon which the water is to be used and to which this licence is appurtenant is that part of Lot 1, Kootenay District, shown on Explanatory Plan 20074I, Sketch Map 20655A and Parcel A (Certificate of Title 1516K), except Canadian Pacific Railway Right of Way (Plan 8353), of which 44 acres may be irrigated.

(*h*) The works authorized to be constructed are diversion structure, pump and pipe, which shall be located approximately as shown on the attached plan.

(*i*) The construction of the said works shall be commenced on or before the 31st day of March, 1977, and shall be completed and the water beneficially used on or before the 31st day of December, 1979.

(j) This licence is issued in substitution of Final Water Licence 3112, in part, under Section 17 of the Water Act.

H.D. DeBeck,
Comptroller of Water Rights.

File No. 0242247 Date issued: 15th September, 1976 Conditional Licence No. 46848

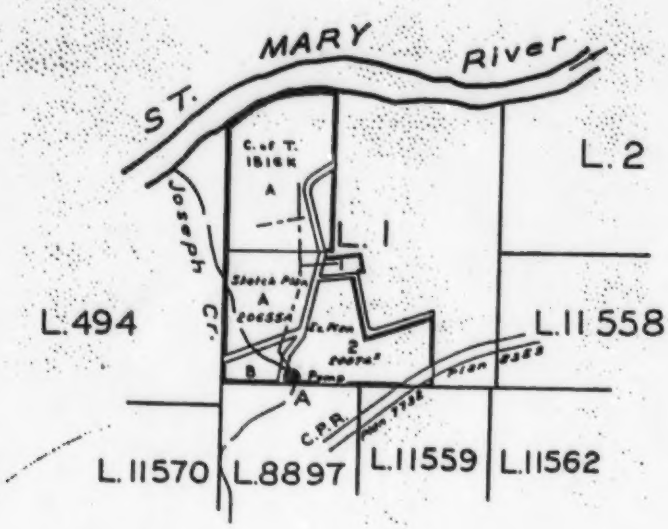
ENTERED ON
Map No. 1220
By A. TK

British Columbia

CRANBROOK WATER DISTRICT

KOOTENAY DISTRICT

Scale: 20 Chains to 1 Inch


ST. MARY River
Joseph Cr.
C. of T. 1816K
A
L. 1
L. 2
Sketch Plan
A
20655A
Ex. Plan
2
20070?
B
Pump
A
L.494
L.11 558
Plan 2353
C.P.R.
Plan 7732
L.11570
L.8897
L.11559
L.11562

N

TRUE NORTH

LEGEND

Point of Diversion ●

W.R. Map 1220

Pipe — - — - —

The boundaries of the land to which this licence is appurtenant are shown thus: ▬▬▬

Signature

Date 15th Sept 1976

C.L.46848 for F.L.3112 in pt.

File 0242247

EXHIBIT "A"

100-871-0447

Cranbrook Precinct

LAND AND WATER MANAGEMENT
WATER RIGHTS BRANCH

MINISTRY OF THE ENVIRONMENT

THE PROVINCE OF BRITISH COLUMBIA—WATER ACT

CONDITIONAL WATER LICENCE

The Honourable Minister of Indian and Northern Affairs (Kootenay - Okanagan District) of Ottawa, Ontario

is/are hereby authorized to divert and use water as follows:—

(*a*) The source(s) of the water-supply is/are Kootenay River.

(*b*) The point(s) of diversion is/are located as shown on the attached plan.

(*c*) The date from which this licence shall have precedence is 21st March, 1972.

(*d*) The purpose for which the water is to be used is irrigation.

(*e*) The maximum quantity of water which may be diverted is 300 acre feet per annum, and such additional quantity as the Engineer may from time to time determine should be allowed for losses.

(*f*) The period of the year during which the water may be used is 1st April to 30th September.

(*g*) The land upon which the water is to be used and to which this licence is appurtenant is that part of St. Mary's Indian Reserve Number 4, Isidore's Ranch, Kootenay District, lying south and west of channel of Kootenay River, as shown on attached plan, of which 120 acres may be irrigated.

(*h*) The works authorized to be constructed are diversion structure, pump and pipe, which shall be located approximately as shown on the attached plan.

(*i*) The construction of the said works shall be commenced on or before the 28th day of February, 1978, and shall be completed and the water beneficially used on or before the 31st day of December, 1980.

H. D. DeBeck,
Comptroller of Water Rights.

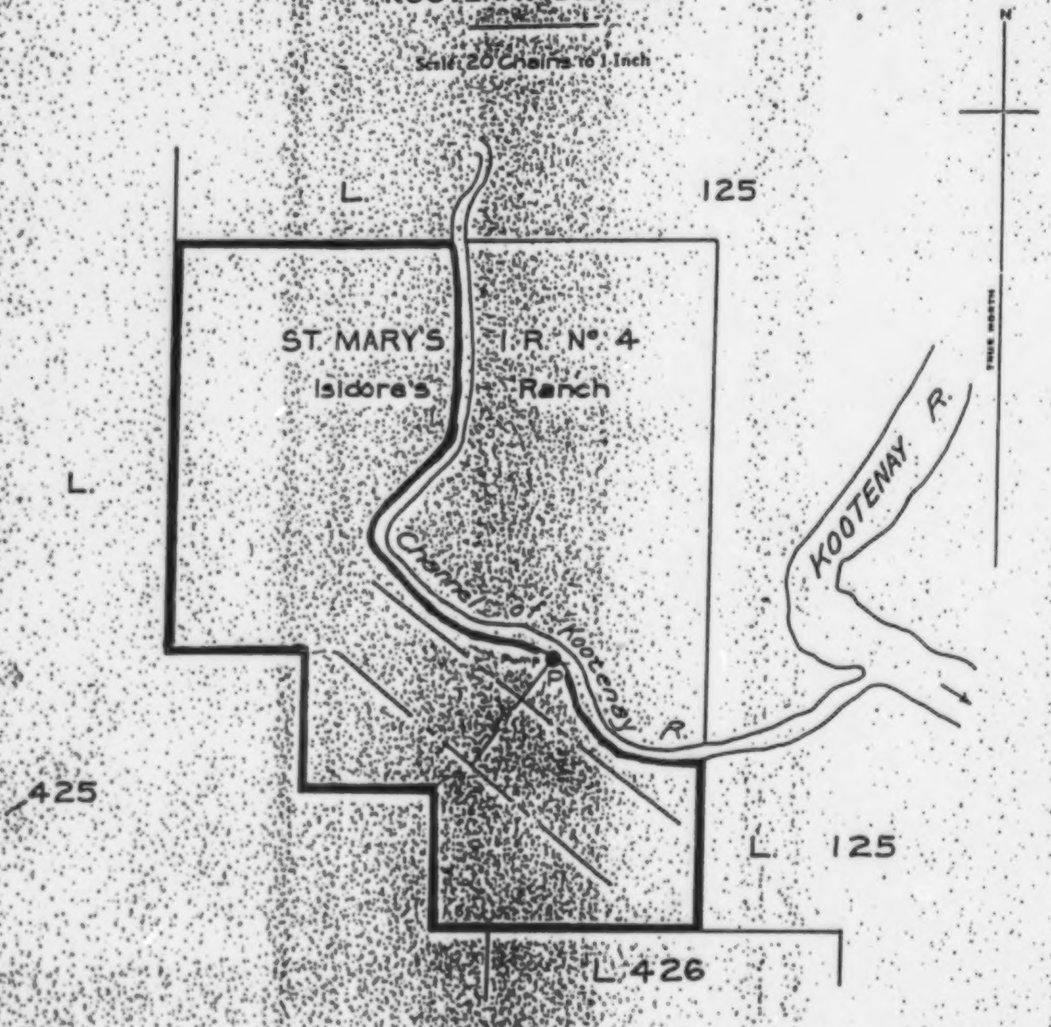
File No. 0309833 Date issued: September 1st, 1977 Conditional Licence No. 48773

ENTERED ON
Map No. 1222
By S. LW

British Columbia

CRANBROOK WATER DISTRICT
KOOTENAY DISTRICT

Scale: 20 Chains to 1 Inch


N
TRUE NORTH
L. 125
ST. MARY'S I.R. N°. 4
Isidore's Ranch
L.
425
Channel of Kootenay R.
KOOTENAY R.
Pump
P
L. 125
L. 426

LEGEND

Point of Diversion ●

W.R. Map 1222

Pipe — — —

The boundaries of the land to which this licence is appurtenant are shown thus: ———

Signature

Date 1st Sept. 1977

CL 48773

File 0309833

EXHIBIT "A"

Cranbrook Precinct

LAND AND WATER MANAGEMENT
WATER RIGHTS BRANCH

MINISTRY OF THE
ENVIRONMENT

THE PROVINCE OF BRITISH COLUMBIA—WATER ACT

CONDITIONAL WATER LICENCE

The Honourable Minister of Indian and Northern Affairs of Ottawa, Ontario.

is/are hereby authorized to divert, store and use water as follows:—

(*a*) The source(s) of the water-supply is/are Mather Creek and the reservoir is Farrell Swamp.

(*b*) The point(s) of diversion and storage is/are located as shown on the attached plan.

(*c*) The date from which this licence shall have precedence is 9th April, 1979.

(*d*) The purpose for which the water is to be used is conservation.

(*e*) The maximum quantity of water which may be diverted and stored.is 130 acre feet per annum, and such additional quantity as the Engineer may from time to time determine should be allowed for losses.

(*f*) The period of the year during which the water may be diverted into storage is 1st April to 30th June and the period during which water may be stored and used is the whole year.

(*g*) ~~[illegible]~~
This licence is appurtenant to the conservation project of the licensee within Indian Reserve #1, Kootenay,Kootenay District.

(*h*) The works authorized to be constructed are diversion and control structures, and ditch, which shall be located approximately as shown on the attached plan.

(*i*) The construction of the said works shall be commenced on or before the 20th day of December, 1980, and shall be completed and the water beneficially used on or before the 31st day of December, 1983.

J.E. Farrell,
Deputy *Comptroller of Water Rights.*

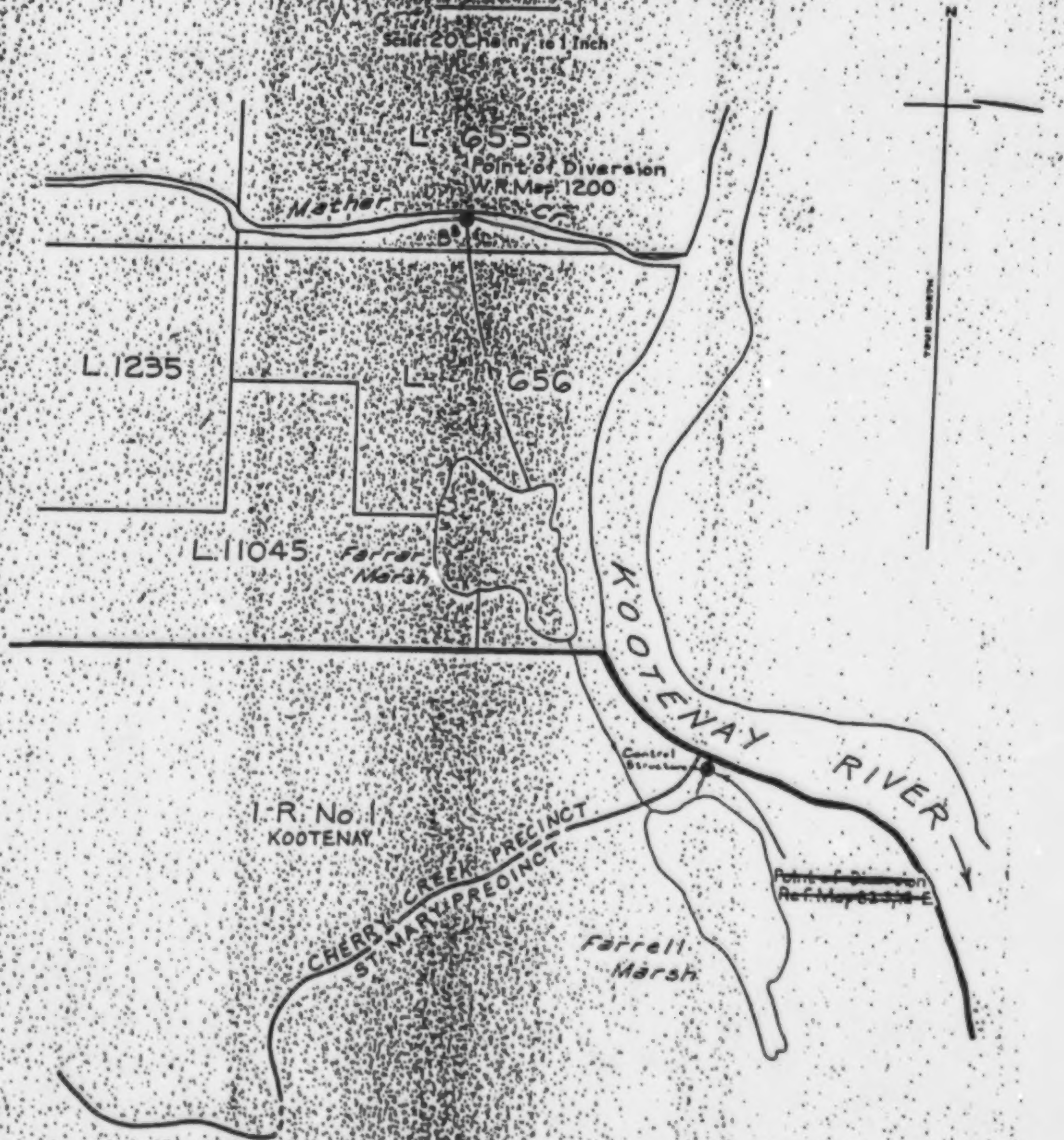
File No. 0365398 Date issued: 20th June, 1980 Conditional Licence No. 53817

ENTERED ON
Map No. 1220 & 826/12-E(7)
By R H

British Columbia

CRANBROOK WATER DISTRICT
KOOTENAY DISTRICT

Scale 20 Chains to 1 Inch


N
L. 655
Point of Diversion
W.R. Map 1200
Mather Cr.
L. 1235
L. 656
L. 11045
Farrell Marsh
KOOTENAY RIVER
Control Structure
~~Point of Diversion~~
~~Ref. Map 82 G [illegible] E~~
I. R. No. 1
KOOTENAY
CHERRY CREEK PRECINCT
ST. MARY PRECINCT
Farrell Marsh

LEGEND

Point of Diversion ●
W.R. Map 1200 & ~~Ref. Map 82 G [illegible]~~
Ditch ———

The boundaries of the land to which this licence is appurtenant are shown thus: ————

EXHIBIT "A"

Signature Joel R Cavell

Date 20th June 1980

C.L. 53817
File 0365398

WATER MANAGEMENT BRANCH

MINISTRY OF ENVIRONMENT

THE PROVINCE OF BRITISH COLUMBIA—WATER ACT

CONDITIONAL WATER LICENCE

Kootenay Indian Area Council of Site 15, Mission Road, S.S. #1, Cranbrook, B.C.
V1C 4H4

is hereby authorized to divert and use water as follows.

(a) The source of the water-supply is St. Mary River.

(b) The point of diversion is located as shown on the attached plan.

(c) The date from which this licence shall have precedence is 6th June, 1980.

(d) The purpose for which the water is to be used is irrigation.

(e) The maximum quantity of water which may be diverted is 357.5 acre feet per annum, and such additional quantity as the Engineer may from time to time determine should be allowed for losses.

(f) The period of the year during which the water may be used is 1st April to 30th September.

(g) The land upon which the water is to be used and to which this licence is appurtenant is Lot 1758; Lot 494 Kootenay District; Parcel A (Certificate of Title 1516K), Parcels A and B, Explanatory Plan 20655A, Lots 1 and 2 of Explanatory Plan 20074I, of Lot 1 Kootenay District, except Right-of-Way Plan 8353, of which 130 acres may be irrigated.

(h) The works authorized to be constructed are diversion structure, pump and pipe, which shall be located approximately as shown on the attached plan.

(i) The construction of the said works has been commenced and shall be completed and the water beneficially used on or before the 31st day of December, 1984.

J.E. Farrell,
Deputy Comptroller of Water Rights.

File No. 0366696 Date issued: 3rd May, 1982 Conditional Licence 56716

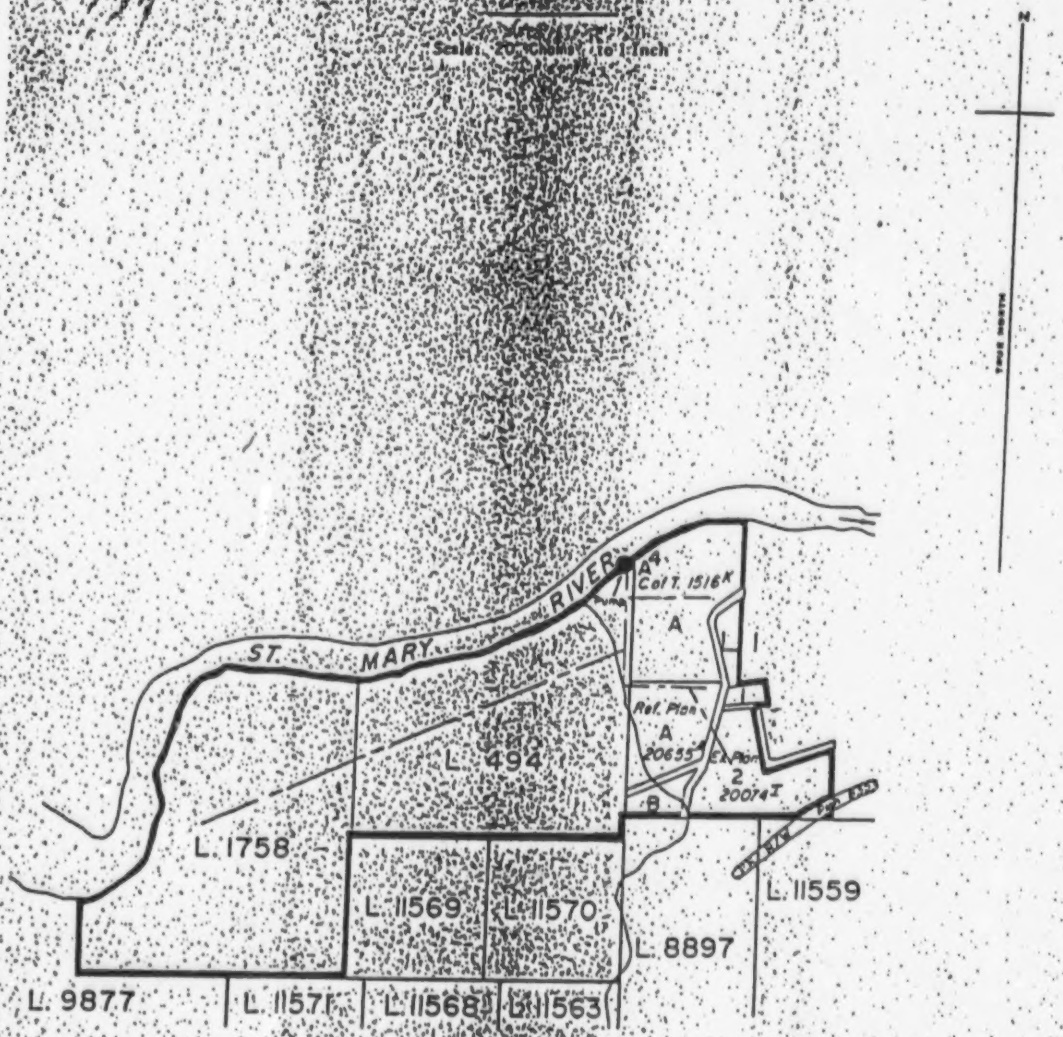
ENTERED ON
Map No. 1220
By DPP VD

British Columbia

CRANBROOK WATER DISTRICT

KOOTENAY DISTRICT

Scale: 20 Chains to 1 Inch


N
TRUE NORTH
ST. MARY RIVER
A
Col T. 1516K
A
Ref. Plan
A
20655I
Ex. Plan
2
20074I
B
L. 494
L. 1758
L. 11569
L. 11570
L. 11559
L. 8897
L. 9877
L. 11571
L. 11568
L. 11563

LEGEND

Point of Diversion ●

W.R. Map 1220

Pipe — — —

The boundaries of the land to which this licence is appurtenant are shown thus: ▬▬▬

Signature Joel [illegible]

Date 3rd May 1982

CL 56716

File 0366696

EXHIBIT "A"

Cranbrook Precinct

WATER MANAGEMENT BRANCH

MINISTRY OF ENVIRONMENT

THE PROVINCE OF BRITISH COLUMBIA—WATER ACT

CONDITIONAL WATER LICENCE

Her Majesty the Queen in the Right of Canada, c/o Department of Indian Affairs and Northern Development of Box 10061, Pacific Centre, 700 W. Georgia Street, Vancouver, B.C. V7Y 1C1

is hereby authorized to divert and use water as follows:

(a) The source of the water supply is Mather Creek.

(b) The points of diversion are located as shown on the attached plan.

(c) The date from which this licence shall have precedence is 15th March, 1982.

(d) The purpose for which the water is to be used is irrigation.

(e) The maximum quantity of water which may be diverted is 100 acre feet per annum.

(f) The period of the year during which the water may be used is 1st April to 30th September.

(g) The land upon which the water is to be used and to which this licence is appurtenant is Sublots 9, 10, 15 & 16, District Lot 339, Kootenay District, Plan X-40 of which 40.0 acres may be irrigated.

(h) The works authorized to be constructed are diversion structures, pumps, pipes and sprinkler system, which shall be located approximately as shown on the attached plan.

(i) The construction of the said works has been commenced and shall be completed and the water beneficially used on or before the 31st day of December, 1987.

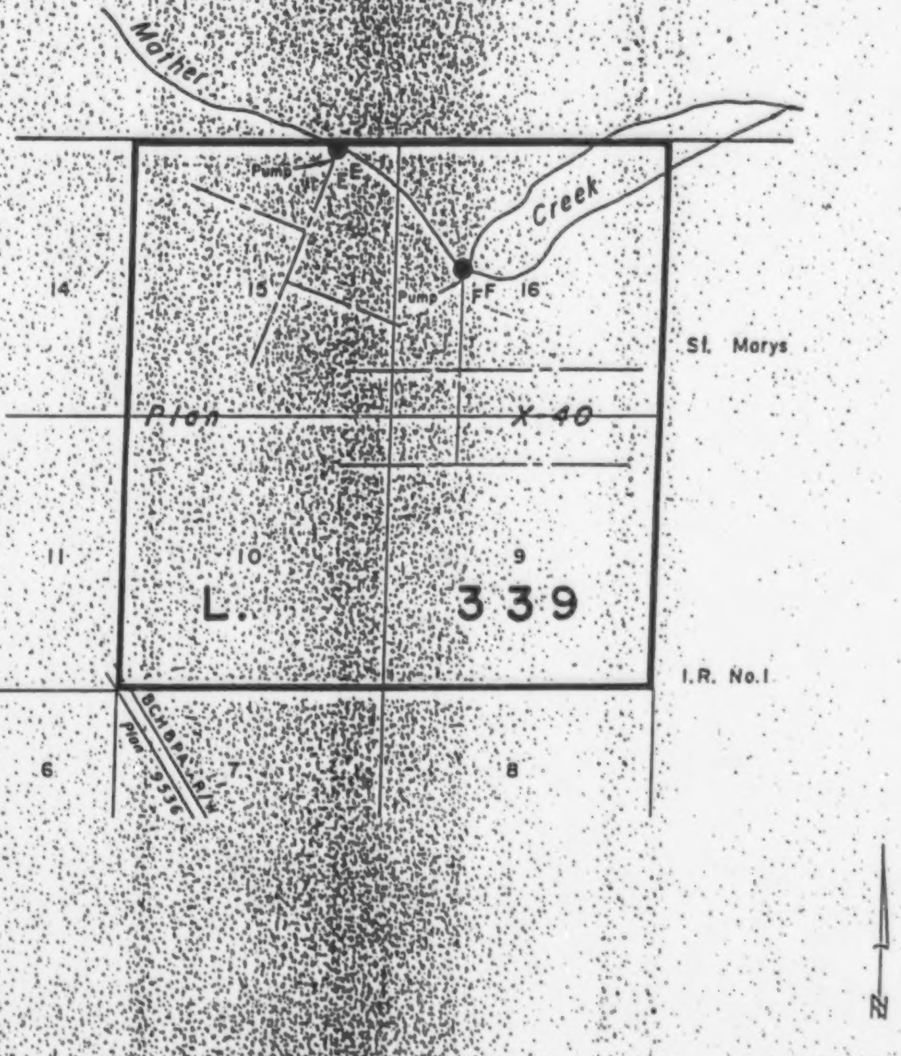
J. H. Dyck

J.H. Dyck
Regional Water Manager

File No. 4000004 Date issued: Feb. 18, 1985 Conditional Licence 60014

W-123

Province of British Columbia



Mather
Creek
Pump
E
Pump
F
14
15
16
St. Marys
Plan
X-40
11
10
9
L.
339
I.R. No.1
6
7
8
B.C.M.R.P.&L. R/W
Plan 9336
N

WATER DISTRICT : CRANBROOK
PRECINCT : CHERRY CREEK
LAND DISTRICT : KOOTENAY

LEGEND

Scale : 20 Chains to 1 Inch
Point of Diversion : ●
Map Number : WR 1202
Pipe : — — —

Signature J. H. Dyck
Date Feb. 18, 1985

C.L. 60014
File 4000004

The boundaries of the land to which this licence is appurtenant are shown thus: ———

WATER MANAGEMENT
BRANCH

MINISTRY OF
ENVIRONMENT

THE PROVINCE OF BRITISH COLUMBIA—WATER ACT

CONDITIONAL WATER LICENCE

The Honourable Minister of Indian and Northern Affairs Canada of Box 1000,
800 Burrard Street, Vancouver, B.C. V6Z 2J3 on behalf of the St. Mary's Indian Band
of Site 15, Mission Road, SS #1, Cranbrook, B.C. V1C 4H4

are hereby authorized to divert and use water as follows:

(a) The stream on which the rights are granted is Mather Creek.

(b) The points of diversion are located as shown on the attached plan.

(c) The date from which this licence shall have precedence is 24th July, 1911.

(d) The purposes for which this licence is issued are irrigation, domestic and industrial (stock watering).

(e) The maximum quantity of water which may be diverted for irrigation purpose is 173.5 acre feet per annum, for domestic purpose is 1,000 gallons a day and for industrial (stock watering) is 2,000 gallons a day.

(f) The period of the year during which the water may be used for irrigation purpose is 1st April to 30th September and for domestic and industrial (stock watering) purposes is the whole year.

(g) The land upon which the water is to be used and to which this licence is appurtenant is Sublots 15 and 16 of District Lot 339, Kootenay District, Plan X-40, of which 69.4 acres may be irrigated.

(h) The works authorized to be constructed are diversion structures, pumps, pipes and sprinkler system, which shall be located approximately as shown on the attached plan.

(i) The construction of the said works has been completed and the water is being used. The licensee shall continue to make a regular beneficial use of the water in the manner authorized herein.

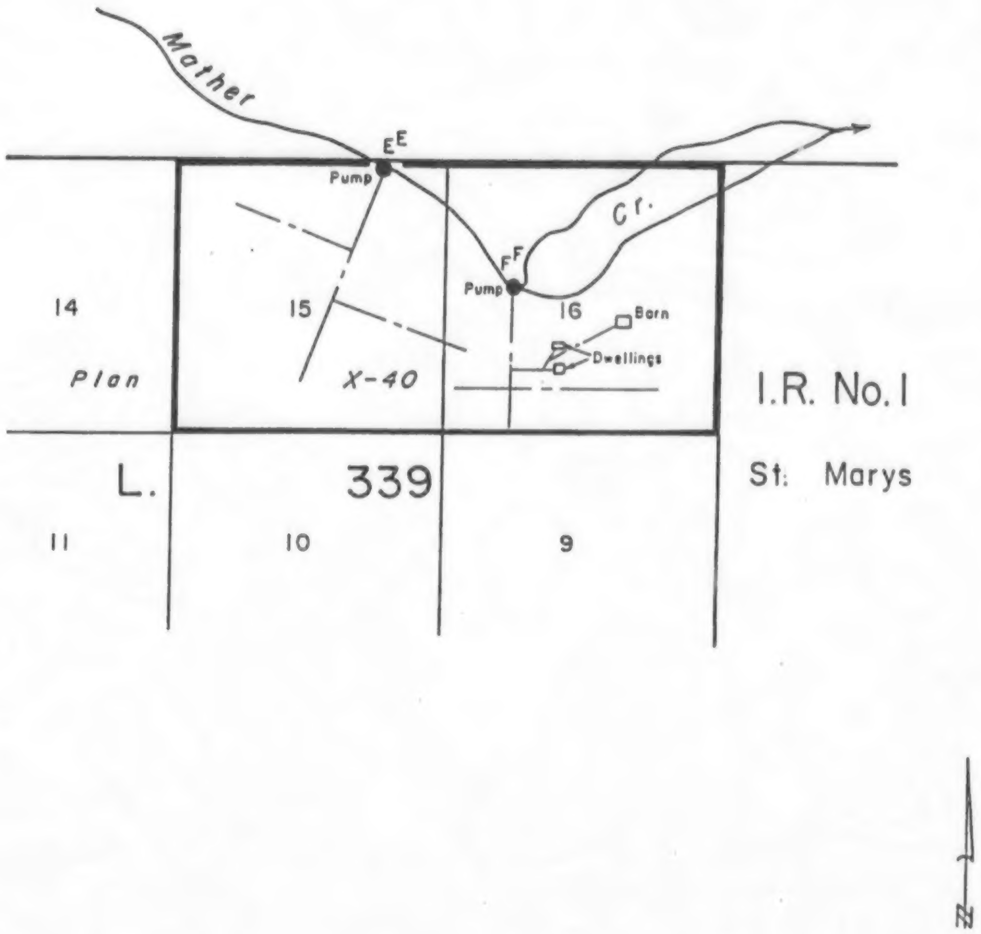
(j) This licence authorizes the use of water for domestic purpose in two dwellings, and for industrial purpose in one barn located approximately as shown on the attached plan.

(k) This licence is issued in substitution of Final Water Licence 4966.

J. E. Farrell
Deputy Comptroller of Water Rights

File No. 0265517 Date issued: 19th April, 1989 CONDITIONAL LICENCE 68937

Province of British Columbia


Mather
Cr.
E^E
Pump
F^F
Pump
14
15
16
Barn
Dwellings
Plan
X-40
I.R. No. I
L.
339
St. Marys
11
10
9
N

WATER DISTRICT : CRANBROOK
PRECINCT : CHERRY CREEK
LAND DISTRICT : KOOTENAY

Signature

Date April 19 1983

LEGEND

Scale : 20 Chains to I inch
Point of Diversion : ●
Map Number : WR 1202
Pipe : ———— - ————

CL.68937 for F.L. 4966
File 0265517

The boundaries of the land to which this licence is appurtenant are shown thus: ————

PROVINCE OF BRITISH COLUMBIA. **WATER RIGHTS BRANCH.** DEPARTMENT OF LANDS.

FINAL WATER LICENCE.

(For Irrigation Purposes.)

WHEREAS the Board of Investigation, constituted and acting under the "Water Act," duly held an investigation respecting the waters set out in the order No. 818, a duplicate of which is hereto attached, and in the said order directed the Comptroller of Water Rights to issue a final licence in respect of the particular record and claim respectively set out therein, and further therein named the terms and conditions to be embodied in the said licence:

NOW, THEREFORE, I, Comptroller of Water Rights of the Province of British Columbia, in pursuance of the said order and in conformity with the "Water Act," issue this final licence, and declare the rights in and to the use of the said waters held under the said record in respect of the said claim...... to be such as are set out in the said order; and the terms and conditions of the said order, a copy of which is hereto attached, and any exhibits which are therewith incorporated are hereby incorporated herewith and form a part hereof.

Made and entered this JUL 7 1914 day of ...., 191......

William Young.

Comptroller of Water Rights.

SUPERCEDED BY
LICENCE NO. c 46848/49

Number 3112

Form No. 1666, W.R.B. (Licence in respect of Board Order)—2,000/7/13.

Copy for Comptroller

PROVINCE OF BRITISH COLUMBIA. **WATER RIGHTS BRANCH.** DEPARTMENT OF LANDS.

FINAL WATER LICENCE

(Irrigation)

Whereas Sisters of Charity of St. Eugene Mission, whose address is Cranbrook, B.C.

is the owner of the lands to which Conditional Licence No. 386 was made appurtenant, and is the applicant for this licence; and

Whereas satisfactory proof has been duly filed, and it has been shown to the satisfaction of the Comptroller that the terms of the said conditional licence have been complied with satisfactorily, and particularly that the works for the diversion and carriage of the water under the said licence have been completed and that beneficial use of the water has been made thereunder:

Now, therefore, in pursuance of the "Water Act, 1914," this final licence is issued, granting the licensee thereunder the right to take and use water under the following terms and conditions:—

(*a*.) The source of the water-supply is Joseph Creek

a tributary of St. Mary's River.

(*b*.) The point of diversion from the stream is located as shown in the exhibit marked "A" hereto attached, which is incorporated herewith and made a part hereof, the original of which exhibit is attached to the counterfoil of this licence on file in the office of the Comptroller of Water Rights, Parliament Buildings, Victoria.

(*c*.) The date from which this licence and the right to take and use water thereunder shall take precedence is 25th February, 1885.

(*d*.) The purpose for which the water is to be used is irrigation.

(*e*.) The maximum quantity of water which may be used at the place of use when all the lands mentioned in item (*g*) hereof are under irrigation is, until lawfully altered, 92.5 acre-feet per annum; and the maximum quantity which may be used per acre at the said place of use in any year is 2½ acre-feet: Provided that if any records have been issued, or if any other licences have been or may hereafter be issued, for the use of water upon the said lands, the maximum quantity allowed under this licence shall be reduced by such quantities as may from time to time be used upon the said lands under such other records or licences, including the records or licences at present outstanding, namely, Licence No. — — — — from — — — — — — — — — (Stream.)

and Licence No. — — — — — from — — — — — — — — — — — — — — (Stream.)

And provided further that in such cases the Comptroller may, after the requisite hydrographic data has been accumulated for determining the particular quantity of water which may be used under this licence, require the surrender thereof for the purpose of readjustment, and may amend the same by stating therein such particular quantity so determined. The maximum quantity which may be diverted from the stream per annum

Form 1621, W.R.B. (Final Licence—Irrigation).—1,100-4-21—2000

File No. 38714

Licence Number 3957

is 92.5 acre feet, plus such reasonable allowance for evaporation and seepage as may be set by the District Engineer.

(*f.*) The period of the year during which the water may be used is

1st April to 30th September.

(*g.*) The area and description of the irrigable lands to which this licence shall be appurtenant, subject to beneficial use being made of the water in the irrigation of the said lands, are

37 acres, comprising part of Lot 494, Group 1,

Kootenay District.

; the extent and location of the said lands are further shown by cross-hatching in the said exhibit "A."

(*h.*) The works for the diversion and the carriage of the water consist of diversion

dam, flume and ditch.

(*i.*) Before any change is made in the said works which would be a material deviation from the plans as approved or the works as accepted by the Comptroller, plans of such proposed change must be filed with the Comptroller and approved by him.

(*j.*) The nature and extent of the incidental use (if any) permitted under this licence are

None.

but such use shall not enlarge the quantity of water allowed under item (*e*) above.

(*k.*) The diversion of the quantity of water permitted under this licence shall be limited to such rates of flow in the months of the irrigation season as may be determined, after hydrographic surveys, to be reasonable for the production of ordinary crops on the said lands, and the Comptroller may, after such surveys have been made, require the surrender of this licence and may amend the same by specifying therein such maximum rates of flow.

(*l.*) The terms and conditions of this licence shall replace those of the conditional licence hereinbefore referred to.

(*m.*)

Issued this 29th day of September, 1923

File No. 38713

E A Cleveland

Comptroller of Water Rights.

Licence Number 3957

Form 1621, W.R.B. (Final Licence—Irrigation).—1,100-4-21—2000

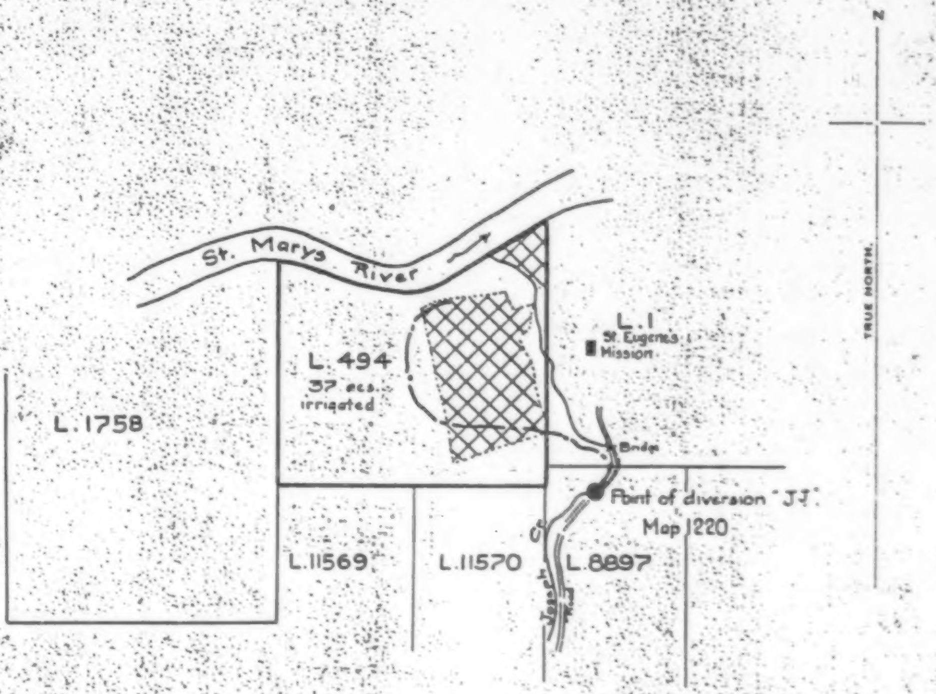
URH—1720

British Columbia.

To accompany Final Licence No. 5957

CRANBROOK WATER DISTRICT

Scale, 20 Chains to 1 Inch.


St. Marys River
L. 1758
L. 494
37 acs.
irrigated
L. 1
St. Eugene's Mission
Bridge
Point of diversion "J.J."
Map 1220
L. 11569
L. 11570
L. 8897
Joseph Cr.
TRUE NORTH
N

KOOTENAY LAND DISTRICT

Signature E.A. Cleveland

Date 29 Sept. 1923

F.L. 5957 for C.L. 386
File 38714
4B-3-14

EXHIBIT "A"

PROVINCE OF BRITISH COLUMBIA.

WATER RIGHTS BRANCH.

DEPARTMENT OF LANDS.

FINAL WATER LICENCE

(Irrigation)

WHEREAS PETER WOODS, whose address is Cranbrook, B.C. is the owner of the lands to which ~~Conditional~~ Water Licence No. 1564 was made appurtenant, and is the applicant for this licence; and

Whereas satisfactory proof has been duly filed, and it has been shown to the satisfaction of the Comptroller that the terms of the said ~~conditional~~ Water licence have been complied with satisfactorily, and particularly that the works for the diversion and carriage of the water under the said licence have been completed and that beneficial use of the water has been made thereunder:

Now, therefore, in pursuance of the "Water Act," ~~1914,~~" this final licence is issued, granting the licensee thereunder the right to take and use water under the following terms and conditions:—

(*a.*) The source of the water-supply is Mather (Cherry) Creek, a tributary of Kootenay River.

(*b.*) The point of diversion from the stream is located as shown in the exhibit marked "A" hereto attached, which is incorporated herewith and made a part hereof, the original of which exhibit is attached to the counterfoil of this licence on file in the office of the Comptroller of Water Rights, Parliament Buildings, Victoria.

(*c.*) The date from which this licence and the right to take and use water thereunder shall take precedence is 24th July, 1911.

(*d.*) The purpose for which the water is to be used is irrigation.& incidentally Domestic.

(*e.*) The maximum quantity of water which may be used at the place of use when all the lands mentioned in item (*g*) hereof are under irrigation is, until lawfully altered, 325 acre-feet per annum; and the maximum quantity which may be used per acre at the said place of use in any year is 2.5 acre-feet: **Provided that if any records have been issued, or if any other licences have been or may hereafter be issued, for the use of water upon the said lands, the maximum quantity allowed under this licence shall be reduced by such quantities as may from time to time be used upon the said lands under such other records or licences, including the records or licences at present outstanding, namely, Licence No. - - - - from - - - - - - - - - - - - - - - (Stream.)**

and Licence No. - - - - - from - - - - - - - - - - - - - - - - - - (Stream.)

And provided further that in such cases the Comptroller may, after the requisite hydrographic data has been accumulated for determining the particular quantity of water which may be used under this licence, require the surrender thereof for the purpose of readjustment, and may amend the same by stating therein such particular quantity so determined. The maximum quantity which may be diverted from the stream per annum

Form 1021, W.R.B. (Final Licence—Irrigation).—1M-721-1940

File No. 27244.

Licence Number 4966

0265517.

Replaced by CL 68937

ORIGINA

is 2.5 acre-feet plus such reasonable allowance for evaporation and seepage as may be set by the District Engineer.

(*f.*) The period of the year during which the water may be used is for irrigation is 1st April to 30th September.

(*g.*) The area and description of the irrigable lands to which this licence shall be appurtenant, subject to beneficial use being made of the water in the irrigation of the said lands, are 130 acres, comprising part of Blocks 15 and 16, Reg. Plan X40, Nelson L.R.D. part of N.E.¼ of Lot 339, Group 1, Kootenay District.

; the extent and location of the said lands are further shown by cross-hatching in the said exhibit "A."

(*h.*) The works for the diversion and the carriage of the water consist of diversion dam and ditches.

(*i.*) Before any change is made in the said works which would be a material deviation from the plans as approved or the works as accepted by the Comptroller, plans of such proposed change must be filed with the Comptroller and approved by him.

(*j.*) The nature and extent of the incidental use (if any) permitted under this licence are 3,000 gallons of water a day to be used throughout the whole year for Domestic purposes.

but such use shall not enlarge the quantity of water allowed under item (*e*) above.

(*k.*) The diversion of the quantity of water permitted under this licence shall be limited to such rates of flow in the months of the irrigation season as may be determined, after hydrographic surveys, to be reasonable for the production of ordinary crops on the said lands, and the Comptroller may, after such surveys have been made, require the surrender of this licence and may amend the same by specifying therein such maximum rates of flow.

(*l.*) The terms and conditions of this licence shall replace those of the ~~conditional~~ Water licence hereinbefore referred to.

(*m.*)

Issued this 14th day of December, 1925.

File No. 27244.

1202

RHW

E. A. Cleveland

Comptroller of Water Rights.

Licence Number 4966

Form 1621, W.R.B. (Final Licence—Irrigation).—1M-221-181

ORIGINAL

ORDER

WATER ACT

Section 13

FILE NO. 2744W

Being satisfied that no person's rights will be injuriously affecte, I hereby amend Final Water Licence No. 4966, Mather (Cherry) Creek, to authorize the construction and maintenance of an intake dam at the point marked "B" Water Rights Map 1202 on the attached plan, and ditches from the said intake dam to the place of use, in place of the works originally authorized under the said licence.

I also amend the said licence by reducing the quantity of water which may be diverted to 177.5 acre feet per annum and the area of land which may be irrigated to 71 acres.

Victoria, B.C., this 14th day of January, 1955.

A. F. Paget,
Comptroller of Water Rights.

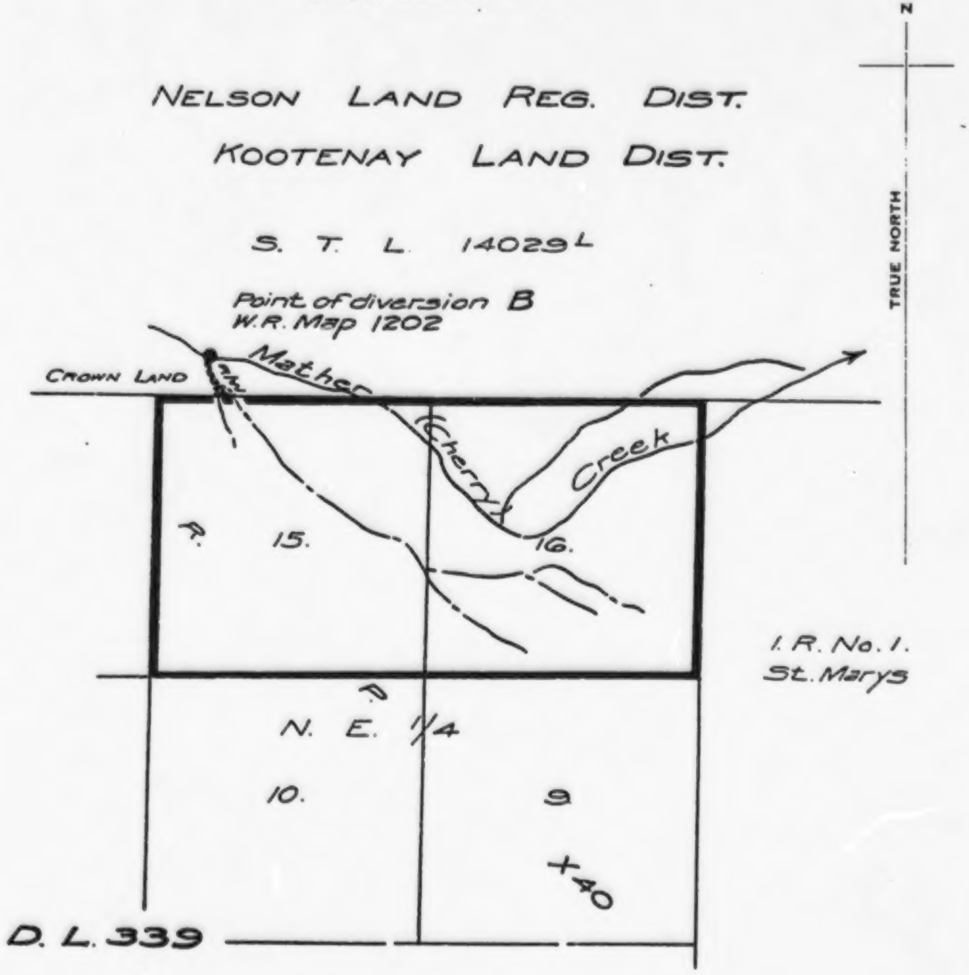
1

British Columbia.

To accompany Final Licence No. 4966 As amended
and Permit for Right of Way over Crown Land

CRANBROOK WATER DISTRICT.

Scale, 20 Chains to 1 Inch.


N
TRUE NORTH
NELSON LAND REG. DIST.
KOOTENAY LAND DIST.
S. T. L. 14029 L
Point of diversion B
W.R. Map 1202
CROWN LAND
Mather (Cherry) Creek
15.
16.
I. R. No. 1.
St. Marys
N. E. 1/4
10.
9
40
D. L. 339

LEGEND

Point of diversion ●

Ditch — - —

Right of Way ▬▬▬

The boundaries of the land to which this licence is appurtenant are shown thus: ▬▬▬

Signature ....

Date .... 14th January, 1955.

Amended F.L. 4966 For W.L. 1564

File 27244 W

EXHIBIT "A"

For R/Ways Ref: Map 16-5 N (C-9)

PROVINCE OF BRITISH COLUMBIA.

WATER RIGHTS BRANCH.

DEPARTMENT OF LANDS.

FINAL WATER LICENCE.

The Superintendent-General of Indian Affairs of Ottawa, Canada, is hereby authorized to divert and use water as follows:—

(*a.*) The source of the water-supply is Kratz springs.

~~a tributary of~~

(*b.*) The point of diversion from the stream is located as shown in the Exhibit marked "A" hereto attached.

(*c.*) The date from which this licence shall have precedence is 17th August, 1931.

(*d.*) The purpose for which the water is to be used is Domestic.

(*e.*) The maximum quantity of water which may be diverted from the stream is 15,000 gallons a day.

(*f.*) The period of the year during which the water may be used is throughout the year.

(*g.*) The land upon which the water may be used is St. Eugene Indian Industrial School, situated on the North-west portion of Lot 1, Kootenay District, as shown in the said Exhibit "A."

(*h.*) The works for the diversion and the carriage of the water consist of tanks and pipes.

(*i.*) This licence is issued in substitution of Conditional Water Licence No. 11055.

Issued this 10th day of June, 1935.

Macdonald
Comptroller of Water Rights.

1220
Jm 1/1/0

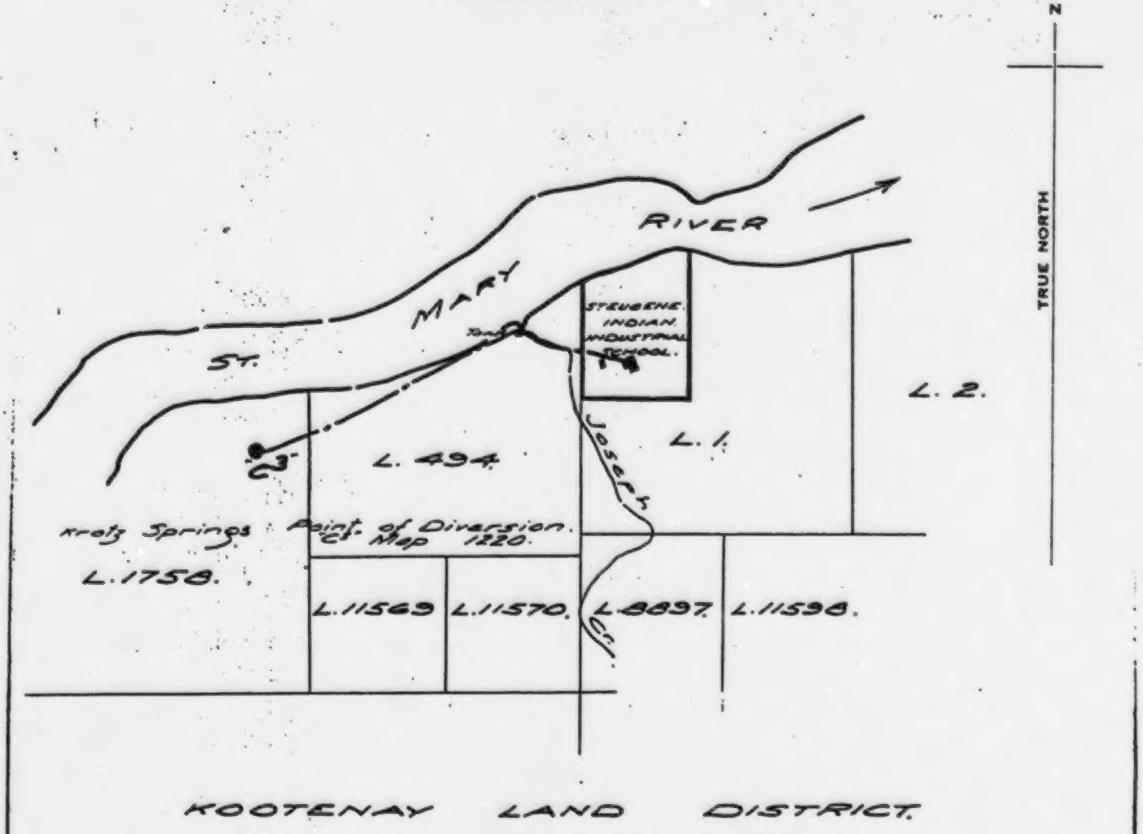
File No. 0101918.

Licence No. 9356

To accompany Final Licence No. 9356
for Conditional Licence No. 11055

CRANBROOK WATER DISTRICT.

Scale, 20 Chains to 1 Inch.


N
TRUE NORTH
ST. MARY RIVER
Tank
STEUBENE INDIAN INDUSTRIAL SCHOOL.
L. 2.
L. 1.
Joseph Cr.
L. 494.
C3
Kreitz Springs : Point of Diversion. Cr. Map 1220.
L. 1758.
L. 11569
L. 11570.
L. 8897.
L. 11598.
KOOTENAY LAND DISTRICT.

The boundaries of the land to which this licence is appurtenant are shown shaded.

K.G.F.
C.H.

EXHIBIT "A"

Signature J. Macdonald

Date 10th June 1936.
~~[illegible] 1931~~

F.L. 9356 for C.L. 11055.
File 0101318.

THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA

DEPARTMENT OF LANDS AND FORESTS

Permit under the "Water Act" Authorizing the Occupation of Crown Land

JOHN E.V. WOODS, of CHERRY CREEK RANCH, TATA CREEK, B.C.

the holder of a water licence authorizing the diversion of water from Mather (Cherry) Creek

is hereby authorized to occupy by maintaining and operating thereon the works authorized under Final Water Licence No. 4966

the following Crown land, namely:—

a portion of S.T.L. 14029^{L} Kootenay Land District, being 600 feet in length and 15 feet in width, the location of which is shown approximately on the plan attached to the said water licence and marked "R/W"

having an area of 0.20 acres.

And, subject to the payment of royalty, stumpage, and other compensation as provided under Condition 5,

10.4

is authorized to cut and remove from the said land any timber, the removal of which is necessary to permit the construction of the said works.

There is payable in respect of this permit an annual rental of $1.00, which is subject to alteration at any time. Failure to pay the annual rental will render this permit subject to cancellation.

This permit is appurtenant to the land to which the aforesaid water licence is appurtenant.

The conditions relative to the rights granted under this permit are printed on the back of this form.

[illegible] [illegible] V.ef Deces
[illegible] 29

Issued the 13th day of January, 19 55.

Deputy Minister of Lands.

File 27244^{W}

W.R. Map 1202

Ref. Map 16-9^{N} (C-6)

W.R.B. 12—1M-1053-6178

~~Conditional~~ Final Licence No. 4966.

PERMIT OVER CROWN LAND No. 3997

✓

CONDITIONS RELATIVE TO THE RIGHTS GRANTED UNDER THIS PERMIT

1. This permit is issued under section 20 of the "Water Act," and the rights hereby granted are subject at all times to the provisions of that Act and all Acts passed in amendment or substitution thereof and to all regulations from time to time made under any such Act.

2. There is reserved to the Crown the right to grant to other persons permits to occupy the land affected by this permit without compensation to the permittee or his successors in title.

3. In the event of any dispute arising at any time between the permittee and any owner of land adjacent to the land affected by this permit with respect to the area or boundaries of the land so affected, the licensee shall at his own expense, when so directed by the Deputy Minister of Lands, have the said land surveyed by a duly qualified surveyor, and shall likewise file with the Department of Lands and Forests at Victoria, B.C., a plan showing the result of the survey.

4. This permit and the rights granted hereunder are subject always to compliance by the permittee with the terms of his water licence, and if the rights granted under the said licence should at any time be suspended or terminated the rights granted under this permit are thereupon likewise suspended or terminated.

5. The amount of stumpage, royalty, and (or) compensation payable to the Crown by the permittee in respect of trees, including merchantable or young growth, cut, removed, damaged, or destroyed by the permittee, shall be the sum or sums fixed by the Forest Service of the Province of British Columbia.

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Stream Register Report      Water Licence Information System
____________________________________________________________

   Report Requested By    : DMOCUS
   Date Report Requested : 1996/01/10 14:07
   Report Sorted By       : Source Gazetted - Priority Date - Licence Number
   Selection Criteria
               START POINT       : MO23497 - II Brook ( 23497 ) left of Ferrell Marsh
               END POINT         : 802583 - Ferrell Marsh on II Brook ( 23498 )

    ------------ No Licences Reported ------------
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Stream Register Report      Water Licence Information System
________________________________________________________________

    Report Requested By   : DWOGUS
    Date Report Requested : 1996/01/18 14:34
    Report Sorted By      : Source Gazetted - Priority Date - Licence Number
    Selection Criteria
                START POINT     : PO23172 - 82.G.042 A
                END POINT       : SO2645 - Joseph Creek right of St. Mary River
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Stream Register Report                                                   Water Licence Information System                                                   DATE: 1996/01/18
                                                                                                                                                            TIME: 14:34
                                                                                                                                                            PAGE: 001

Priority   Licence File     Appurtenancy                   Licensee                          PUC        Quantity/Units  Term   Term  Licence Comments                 Process Status
YYYY/MM/DD Number  Number                                                                                               Start  End

           Source                       WR Map             POD   RED POD Comments                                                     Prec
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------

1868/12/04 C046848 0242247 44 AC OF THAT PART OF L 1       ST MARYS INDIAN BAND              IRR               110.00 AF Apr 01 Sep 30
                           KOOTENAY DIST SHOWN ON EXP PLAN 981-602-7422
                           200741 SE MAP 20655A & PARCEL A SS1 SITE 15 MISSION RD
                           (C/T 1516K) EXC CPR R/W (PLAN   CRANBROOK BC
                           8353)                           V1C4H4

           Joseph Creek                 WR1220              A    N                                                                    06B CRN - CRANBROOK

1868/12/04 C053819 0330576 64 AC OF L 5447 KOOTENAY DIST   THIBEAULT HARVEY & SIRI           IRR               160.00 AF Apr 01 Sep 30
                                                           PO BOX 54
                                                           CRANBROOK BC
                                                           V1C4H6

           Joseph Creek                 WR82.G.042          B    N                                                                    06B CRN - CRANBROOK
               Joseph Creek             WR82.G.042          C    N

1872/05/23 C043617 0242248 ALL THE LAND WITHIN BDYS        CRANBROOK CITY OF                 WWKLA      14,600,000.00 GY Jan 01 Dec 31
                                                           40 10TH AVE S
                                                           CRANBROOK BC
                                                           V1C2M8

           Joseph Creek                 WR82.G.042          A    N                                                                    06B CRN - CRANBROOK

1872/05/23 C043618 0322504 ALL THE LAND WITHIN BDYS        CRANBROOK CITY OF                 WWKLA       7,008,000.00 GY Jan 01 Dec 31
                                                           40 10TH AVE S
                                                           CRANBROOK BC
                                                           V1C2M8

           Joseph Creek                 WR82.G.042          A    N                                                                    06B CRN - CRANBROOK

1875/01/07 C039845 0265448 ALL THE LAND WITHIN BDYS OF     CRANBROOK CITY OF                 WWKLA   1,376,050,000.00 GY Jan 01 Dec 31 STOR AT C 41965 JOSEPH CR
                                                           40 10TH AVE S
                                                           CRANBROOK BC
                                                           V1C2M8

           Joseph Creek                 WR1221A             N3   N                                                                    06B CRN - CRANBROOK
               Joseph Creek             WR1221A             P3   N
               Joseph Creek             WR82.G.042          A    N
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Priority   Licence File    Appurtenancy                          Licensee                                 PUC           Quantity/Units  Term   Term  Licence Comments                        Process Status
YYYY/MM/DD Number  Number                                                                                                               Start  End

           Source                              WR Map               POD   RED POD Comments                                                                                   Prec
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

1885/02/25 F003957 0265705 37 AC OF L 494 KOOTENAY DIST          ST MARYS INDIAN BAND                     IRR                 92.50 AF Apr 01 Sep 30
                                                                 981-602-7422
                                                                 881 SITE 15 MISSION RD
                                                                 CRANBROOK BC
                                                                 V1C4H4

           Joseph Creek                        WR1220               JJ    N                                                                                    06B CRN - CRANBROOK

1886/03/01 C039843 0018401 ALL THE LAND WITHIN BDYS OF           CRANBROOK CITY OF                        WWKLA     1,376,050,000.00 GY Jan 01 Dec 31 STOR AT C 41965 JOSEPH CR
                                                                 40 10TH AVE S
                                                                 CRANBROOK BC
                                                                 V1C2[illegible]

           Joseph Creek                        WR1221A              N3    N                                                                                    06B CRN - CRANBROOK
               Joseph Creek                    WR1221A              P3    N
               Joseph Creek                    WR82.G.042           A     N

1899/12/02 C056438 0369525 1.8 AC L 13 OF L 3556 PLAN 1241       CALLEN CHRISTOPHER & BEVERLEY            IRR                  2.70 AF Apr 01 Sep 30
                                                                 3311 9TH ST S
                                                                 CRANBROOK BC
                                                                 V1C4N2

           Joseph Creek                        WR1221A              K3    N                                                                                    06B CRN - CRANBROOK

1899/12/02 C056439 0305026 2.06 AC L 21 OF L 3556 PLAN 1241      MCLEAN JOAN P                            IRR                  3.09 AF Apr 01 Sep 30
                                                                 3400 13TH ST S
                                                                 CRANBROOK BC
                                                                 V1C4L9

           Joseph Creek                        WR1221A              J3    N                                                                                    06B CRN - CRANBROOK

1899/12/02 F061553 0305025 0.54 AC OF L 18 L 3556 KOOTENAY      ANKERS LEONARD H & LAVERNE A             IRR                  1.35 AF Apr 01 Sep 30
                           DIST PLAN 1241 EXC PARCEL A EXP       3124 13TH ST S
                           PLAN 25129I                           CRANBROOK BC
                                                                 V1C4L9

           Joseph Creek                        WR1221A              E3    N                                                                                    06B CRN - CRANBROOK
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Stream Register Report                                                                        Water Licence Information System                                                                    DATE: 1996/01/18
                                                                                                                                                                                                  TIME: 14:34
                                                                                                                                                                                                  PAGE: 003

Priority   Licence File    Appurtenancy                                                       Licensee                                PUC           Quantity/Units  Term   Term  Licence Comments                         Process Status
YYYY/MM/DD Number  Number                                                                                                                                           Start  End

           Source                            WR Map               POD   RED POD Comments                                                                                  Prec
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
1900/10/16 C053818 0242249 27.70 AC OF L 5447 KOOTENAY DIST      THIBEAULT HARVEY & SIRI                 DOM             1,000.00 GD Jan 01 Dec 31
                                                                PO BOX 54                               IRR                69.25 AF Apr 01 Sep 30
                                                                CRANBROOK BC
                                                                V1C4N6

           Joseph Creek                       WR82.G.042           C     N
               Joseph Creek                   WR82.G.042           B     N                                                                                   06B CRN - CRANBROOK

1904/10/10 C039844 0242250 ALL THE LAND WITHIN BDYS OF          CRANBROOK CITY OF                       WWKLA     550,420,000.00 GY Jan 01 Dec 31 STOR AT C 41965 JOSEPH CR
                                                                40 10TH AVE S
                                                                CRANBROOK BC
                                                                V1C2N8

           Joseph Creek                       WR82.G.042           A     N
               Joseph Creek                   WR1221A              N3    N                                                                                   06B CRN - CRANBROOK
               Joseph Creek                   WR1221A              P3    N

1904/12/12 C048456 0265429 ALL THE LAND WITHIN BDYS OF          CRANBROOK CITY OF                       WWKLA      27,740,000.00 GY Apr 01 Oct 31
                                                                40 10TH AVE S
                                                                CRANBROOK BC
                                                                V1C2N8

           Joseph Creek                       WR82.G.042           A     N                                                                                   06B CRN - CRANBROOK

1909/10/27 C039842 0055273 ALL THE LANDS WITHIN BDYS OF         CRANBROOK CITY OF                       WWKLA   2,948,105,000.00 GY Jan 01 Dec 31
                                                                40 10TH AVE S
                                                                CRANBROOK BC
                                                                V1C2N8

           Joseph Creek                       WR82.G.042           A     Y   REDIVERSION FROM A 82.G.032 & B 82.G.032ON GOLD CR                             06C CRN - GOLD CREEK
               Gold Creek                     WR82.G.032           A     N   REDIVERSION AT A. 82.G.042 JOSEPH CR    IN 06B
               Gold Creek                     WR82.G.032           B     N   REDIVERSION AT A. 82.G.042 JOSEPH CR    IN 06B

1909/12/27 C048295 0242253 ALL THE LAND WITHIN BDYS OF          CRANBROOK CITY OF                       WWKLA     101,650,000.00 GY Apr 01 Oct 31
                                                                40 10TH AVE S
                                                                CRANBROOK BC
                                                                V1C2N8

           Joseph Creek                       WR82.G.042           A     N                                                                                   06B CRN - CRANBROOK
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Stream Register Report                                     Water Licence Information System                                        DATE: 1996/01/18
                                                                                                                                   TIME: 14:34
                                                                                                                                   PAGE: 004

Priority   Licence File    Appurtenancy                   Licensee                        PUC        Quantity/Units  Term   Term  Licence Comments            Process Status
YYYY/MM/DD Number  Number                                                                                            Start  End

        Source                           WR Map           POD   RED POD Comments                                                   Prec
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

1920/03/22 C063833 0019485 L 3, 4, 5, 6 & 7 OF L 27 KOOTENAY   CRANBROOK CITY OF               IRRLA           47.50 AF Apr 01 Sep 30                            C/P CANCELLATION PENDING
                           DIST PLAN 7077I                      40 10TH AVE S
                                                                CRANBROOK BC
                                                                V1C2N8

        Joseph Creek                     WR1220D            I    N                                                         06B CRN - CRANBROOK

1925/01/14 C063521 0058806 29.5 AC OF L 11570 KOOTENAY DIST     PETRUK WILLIAM W & SHARON L     IRR             88.50 AF Apr 01 Sep 30
                                                                SS 3 COMP 28 SITE 15
                                                                CRANBROOK BC
                                                                V1C6H3

        Joseph Creek                     WR1220             D4   N                                                         06B CRN - CRANBROOK

1931/04/20 C063477 0099322 LIN PROJECT OF THE LICENSEE          CRANBROOK CITY OF               LDIMP           50.00 AF Jan 01 Dec 31
                           WITHIN THOSE PARTS OF L 3556 &       40 10TH AVE S
                           3557, KOOTENAY DIST SHOWN ON PLAN    CRANBROOK BC
                           D D 11378 & L 9,10,17 & 18 OF        V1C2N8
                           L 3557 KOOTENAY DIST PLAN 1180

        Joseph Creek                     WR1221A            MM   N                                                         06B CRN - CRANBROOK

1943/05/29 C057001 0149646 2.25 AC OF L 20 OF L 3556            CHIZ WILLIAM A & ELIZABETH H    IRR              5.63 AF Apr 01 Sep 30
                           KOOTENAY DIST PLAN 1241              812 29TH AVE S
                                                                CRANBROOK BC
                                                                V1C4R1

        Joseph Creek                     WR1221A            83   N                                                         06B CRN - CRANBROOK

1968/09/03 C061965 0281665 STOR FOR C 39863, 39864, 39865       CRANBROOK CITY OF               STONP         1,850.00 AF Oct 01 Jun 30 STOR IN RESERVOIR
                                                                40 10TH AVE S
                                                                CRANBROOK BC
                                                                V1C2N8

        Joseph Creek                     WR82.G.062          A   N                                                         06B CRN - CRANBROOK
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Priority   Licence File    Appurtenancy                          Licensee                             PUC         Quantity/Units  Term   Term  Licence Comments                  Process Status
YYYY/MM/DD Number  Number                                                                                                        Start  End

           Source                               WR Map           POD   RED POD Comments                                                                    Prec
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1975/07/16 C045548 0329162 L 1,2 OF L 24 & 28 PLAN 6925; BLK     CADILLAC FAIRVIEW CORPORATION LIMITED  LDIMP          0.00 TF Jan 01 Dec 31
                           D & E OF L 4,24,25,28 PLAN 1453,      TAMARACK CENTRE
                           & PART OF 14TH ST N FROM CRANBROOK    100 1500 CRANBROOK ST N
                           ST TO 26TH AVE N AS CLOSED BY CITY    CRANBROOK BC
                           BY LAW #2906 KOOTENAY DIST            V1C3B8

           Joseph Creek                         WR1221C            F4   N                                                                          06B CRN - CRANBROOK

1984/08/22 C065169 4000734 L 4 OF L 3558 KOOTENAY DIST           TROZZO RALPH & GINA                  IRR            6.25 AF Apr 01 Sep 30
                           PLAN 817                              C/O MOUNT BAKER HOTEL
                                                                 1017 BAKER ST
                                                                 CRANBROOK BC
                                                                 V1C1A6

           Joseph Creek                         WR1221A            T3   N                                                                          06B CRN - CRANBROOK

     ------------ Total of 22 Licences Reported ------------
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Stream Register Report      Water Licence Information System
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   Report Requested By    : DHOOUD
   Date Report Requested : 1996/01/18 14:53
   Report Sorted By       : Source Gazetted - Priority Date - Licence Number
   Selection Criteria
                  START POINT     : H066345 - Cross River left of Kootenay River (Upper)
                  END POINT       : #01148 - Kootenay River (Upper) left of Lake Koocanusa
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Stream Register Report                                                                           Water Licence Information System                                                          DATE: 1996/01/18
                                                                                                                                                                                           TIME: 14:52
                                                                                                                                                                                           PAGE: 001

Priority   Licence File    Appurtenancy                          Licensee                                 PUC           Quantity/Units  Term   Term  Licence Comments                          Process Status
YYYY/MM/DD Number  Number                                                                                                               Start  End

           Source                              WR Map                POD   RED POD Comments                                                         Prec
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1962/03/21 C027594 0243095 100 AC OF L 7663 KOOTENAY DIST        FLAIG DAVID F                            DOM              1,000.00 GD Jan 01 Dec 31
                                                                 585 BROOKLEIGH ROAD                      IRR                200.00 AF Apr 01 Sep 30
                                                                 VICTORIA BC
                                                                 V8S3K1

           Kootenay River (Upper)              WR1223                E     N                                                                    06B CRH - CRANBROOK
               Kootenay River (Upper)          WR1223                F     N

1967/06/08 C033838 0273552 L 4821 EXC PARTS OUTLINED IN          CRESTBROOK FOREST INDUSTRIES LTD         PULPM              10.00 CS Jan 01 Dec 31                                            T/A TRANSFER/APPORT PEND
                           RED ON PLAN 2 & 3 ANNEXED TO          BOX 4600
                           DD 8953 & PART OF L 6615 LYING E      CRANBROOK BC
                           OF CPR R/W (PLAN 1198) ALL OF         V1C4J7
                           KOOTENAY DIST

           Kootenay River (Upper)              WR82.G.052            F     N                                                                    06F CRH - SKOOKUMCHUCK

1969/12/22 C043872 0290696 130 AC BLK B L 129 PLAN 816 EXC       WILDLIFE BRANCH                          IRR               260.00 AF Apr 01 Sep 30
                           PLAN 5262,5030 PLAN 50249I,HWY 93     617 VERNON ST
                           & 95(PLAN R311) & CPR R/W;DD 14911    NELSON BC
                           (2) PART OF L 332,8107 LYING W OF     V1L4E9
                           HWY 93 & 95(PLAN R311) EXC CPR R/W
                           DD14911 (3) L 130 EXC CPR R/W

           Kootenay River (Upper)              WR1891                E3    N   REDIVERSION AT N3 1891 MIDDLE BUMMERS   MARSH                    09D FER - FORT STEELE
               Middle Bummers Marsh            WR1891                N3    Y   REDIVERSION FROM E3 1891 & N3 1891      AUGUM CR
               Saugum Creek                    WR1891                N3    N   REDIVERSION AT N3 1891 MIDDLE BUMMERS   MARSH

1970/06/19 C069564 0296426 PCL 1 (SEE 1483731) OF PCL A (SEE 664 AMANN ANTON P                            IRR               160.00 AF Apr 01 Sep 30
                           4I) DL 131 KOOTENAY DIST              BOX 153
                                                                 WASA BC
                                                                 V0B2K0

           Kootenay River (Upper)              WR82.G.072            N     N                                                                    08I FER - WASA
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Priority   Licence File    Appurtenancy                          Licensee                                  PUC           Quantity/Units  Term   Term  Licence Comments                         Process Status
YYYY/MM/DD Number  Number                                                                                                               Start  End

           Source                              WR Map                POD   RED POD Comments                                                     Prec
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1971/04/01 C038212 0308976 THAT PART OF L 334 KOOTENAY DIST      TRANSPORTATION & HIGHWAYS MINISTRY OF     DOM              2,000.00 GD Jan 01 Dec 31
                           SHOWN ON ATTACHED PLAN (ROADSIDE      KOOTENAYS REGION
                           REST AREA SITE SHOWN ON HWY DIST      310 WARD ST
                           PLAN 20-41)                           NELSON BC
                                                                 V1L5S4

           Kootenay River (Upper)              WR82.G.083            G     N                                                                    06A CRN - CHERRY CREEK

1972/03/21 C049773 0309833 120 AC OF PART OF ST MARY'S IR #4     ST MARYS INDIAN BAND                      IRR                100.00 AF Apr 01 Sep 30
                           ISIDORE'S RANCH KOOTENAY DIST         981-682-7422
                           LYING S & W OF CHANNEL KOOTENAY R     SS1 SITE 15 MISSION RD
                           SHOWN ON PLAN                         CRANBROOK BC
                                                                 V1C4H4

           Kootenay River (Upper)              WR1222                P     N                                                                    06B CRN - CRANBROOK

1972/05/16 C043876 0310106 130 AC BLK B L 129 PLAN 816 EXC       WILDLIFE BRANCH                           IRR                260.00 AF Apr 01 Sep 30
                           PLAN 5262,5830 PLAN 582491 HWY 93     617 VERNON ST
                           & 95(PLAN R311) & CPR R/W;DD 14911    NELSON BC
                           (2) PART OF L 332 & 8107 LYING W      V1L4E9
                           HWY 93 & 95 EXC CPR R/W;DD 14911,
                           (3) L 130 EXC CPR R/W;DD 14911

           Kootenay River (Upper)              WR1891                G3    N                                                                    08D FER - FORT STEELE
               Kootenay River (Upper)          WR1891                H3    N

1972/05/16 C066102 0310106 CONS PROJECT OF LICENSEE IN L 129     DUCKS UNLIMITED (CANADA)                  CONST              325.00 AF Jan 01 Dec 31 MAX RAT TO BE TAKEN APR01 JUNE30
                           130 332 & 8107 KOOTENAY DIST          BOX 357
                                                                 CRESTON BC
                                                                 V0B1G0

           Kootenay River (Upper)              WR1891                K3    N                                                                    08D FER - FORT STEELE

1973/02/08 C048296 0316495 40 AC OF L 13067 KOOTENAY DIST        FREUND KARL A                             IRR                100.00 AF Apr 01 Sep 30
                           LYING W OF CPR (PLAN 1198)            BOX 11 TORRENT RD
                                                                 SKOOKUMCHUCK BC
                                                                 V0B2E0

           Kootenay River (Upper)              WR82.G.092            L     N                                                                    06F CRN - SKOOKUMCHUCK
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Priority   Licence File    Appurtenancy                      Licensee                            PUC        Quantity/Units Term   Term  Licence Comments                   Process Status
YYYY/MM/DD Number  Number                                                                                               Start  End

           Source                          WR Map            POD   RED POD Comments                                                    Prec
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
1973/09/26 C042693 0317914 170 AC OF L 37 & 38 EXC CPR R/W   BJORN ROBERT N                      IRR           212.50 AF Apr 01 Sep 30
                           (DD 13288 & 17164A)               PICTURE VALLEY RANCH
                                                             BOX 74
                                                             FORT STEELE BC
                                                             V0B1N0

           Kootenay River (Upper)          WR1891              X     N                                                                 08A PER - BULL RIVER

1974/03/22 C048969 0322660 80 AC OF THOSE PARTS OF L 116 &   MINOR RANCHING CO LTD               IRR           320.00 AF Apr 01 Sep 30
                           330 KOOTENAY DIST SHOWN ON EXP    BOX 430
                           PLAN 135153I LYING E OF HWY #95   CRANBROOK BC
                                                             V1C4H9

           Kootenay River (Upper)          WR82.G.082          B     N                                                                 06A CRN - CHERRY CREEK

1974/04/18 C046198 0332963 50 AC OF THAT PART OF L 1894      CREELMAN A GLEN & PATRICIA M        IRR           100.00 AF Apr 01 Sep 30
                           LYING E OF HWY E (PLAN R 178) &   RR 3 COMP 32 SITE 5
                           THAT PART OF L 128 AS DESCRIBED   CRANBROOK BC
                           IN C/T 73487I                     V1C6H3

           Kootenay River (Upper)          WR1222              S     N                                                                 06B CRN - CRANBROOK

1975/11/05 C049309 0329852 270 AC OF BLK 1 & 2 OF L 127      HOLLINGS LAWRENCE F & CATHERINE A   IRR           540.00 AF Apr 01 Sep 30
                           KOOTENAY DIST PLAN 1431           BOX 62
                                                             FORT STEELE BC
                                                             V0B1N0

           Kootenay River (Upper)          WR1891              EE    N                                                                 08A PER - BULL RIVER

1976/02/05 C056283 0330178 PART OF L 6615 LYING E OF CPR R/W CRESTBROOK FOREST INDUSTRIES LTD    LDINP           0.00 TF Jan 01 Dec 31
                           (PLAN 1198) AND PART OF L 16632   BOX 4600
                           LYING W OF HWY 93-95 KOOTENAY DIST CRANBROOK BC
                                                             V1C4J7

           Kootenay River (Upper)          WR82.G.093          Q     N                                                                 06F CRN - SKOOKUMCHUCK
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Stream Register Report                                                        Water Licence Information System                                             DATE: 1996/01/10
                                                                                                                                                           TIME: 14:52
                                                                                                                                                           PAGE: 994

Priority   Licence File    Appurtenancy                       Licensee                           PUC          Quantity/Units  Term   Term  Licence Comments                     Process Status
YYYY/MM/DD Number  Number                                                                                                     Start  End

           Source                          WR Map               POD   RED POD Comments                                                     Prec
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1980/09/29 C058706 0367309 100 AC OF L 7463 KOOTENAY DIST       FLAIG DAVID F                      IRR              200.00 AF Apr 01 Sep 30
                                                                595 BROOKLEIGH ROAD
                                                                VICTORIA BC
                                                                V8S3K1

           Kootenay River (Upper)          WR1223                 J     N                                                                  06B CRH - CRANBROOK
              Kootenay River (Upper)       WR1223                 K     N

1981/12/10 C062602 0369747 10 AC OF L B OF L 325 KOOTENAY       LENIHAN BRENDAN                    IRR               35.00 AF Apr 01 Sep 30
                           DIST PLAN 12600                      116 NORTON AVE
                                                                KIMBERLEY BC
                                                                V1A1X7

           Kootenay River (Upper)          WR1400                 N3    N                                                                  06J CRH - WARDNER

1985/10/11 C064882 4000982 PARCEL 1 BLK A DL 129 KOOTENAY DIST  DUCKS UNLIMITED (CANADA)           CONST            600.00 AF Jan 01 Dec 31
                           PLAN 816                             BOX 357
                                                                CRESTON BC
                                                                V0B1G0

           Kootenay River (Upper)          WR82.G.072             EE    N                                                                  08D FER - FORT STEELE

1987/02/11 C067766 4001199 DL 111 KOOTENAY DIST AND BLK A DL    MO-MAC INVESTMENTS LIMITED         IRR              300.00 AF Apr 01 Sep 30
                           4596 KOOTENAY DIST PL 2150 EXCEPT    C/O J2 RANCH
                           PART INCLUDED IN PL 10916 OF WHICH   PO BOX 8
                           100 AC. MAY BE IRRIGATED             CANAL FLATS BC
                                                                V0B1B0    -

           Kootenay River (Upper)          WR82J/SW(4-f)          E     N                                                                  10C GOL - FAIRMONT

1990/04/26 C100073 4001991 THAT PORTION OF L1 DL 4838 & 4839 KOO CUNLIFFE THELMA J                 IRR              150.00 AF Apr 01 Sep 30
                           TENAY DIST PLAN NEP 19706 LYING      PO BOX 51
                           WITHIN BOUNDARIES OF L 4838          FT STEELE BC
                                                                V0B1N0

           Kootenay River (Upper)          WR1800                 FF    N                                                                  08A FER - BULL RIVER
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Priority   Licence File     Appurtenancy                     Licensee                       PUC        Quantity/Units  Term   Term  Licence Comments            Process Status
YYYY/MM/DD Number  Number                                                                                             Start  End

       Source                        WR Map            POD   RED POD Comments                                             Prec
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1995/06/12 Z109808 4003267 LOT 1 DISTRICT LOT 4596 KOOTENAY DIST FLEXHAUG DEBORAH P     DOM           500.00 GD Jan 01 Dec 31                          APP APPLIC-CLEARED
                           RICT PLAN 6615                        BOX 383
                                                                 CANAL FLATS BC
                                                                 V0B1B0

       Kootenay River (Upper)        WR2904             II    H                                                           10C OOL - FAIRMONT

    ------------ Total of 20 Licences Reported ------------
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Stream Register Report      Water Licence Information System
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    Report Requested By   : DMOCUS
    Date Report Requested : 1996/01/18 15:22
    Report Sorted By      : Source Gazetted - Priority Date - Licence Number
    Selection Criteria
                 START POINT      : PO23032 - 1220 C3
                 END POINT        : SO2601 - Kratz Springs
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Stream Register Report                                            Water Licence Information System                                                    DATE: 1996/01/18
                                                                                                                                                      TIME: 15:22
                                                                                                                                                      PAGE: 001

Priority   Licence File    Appurtenancy                          Licensee                          PUC          Quantity/Units  Term   Term  Licence Comments                         Process Status
YYYY/MM/DD Number  Number                                                                                                       Start  End

           Source                                WR Map           POD   RED POD Comments                                                            Prec
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1931/08/17 F009356 0101918 ST EUGENE IND SCHOOL L 1 KOOTENAY     ST MARYS INDIAN BAND              DOM            15,000.00 GD Jan 01 Dec 31
                           DIST                                  981-602-7422
                                                                 SS1 SITE 15 MISSION RD
                                                                 CRANBROOK BC
                                                                 V1C6H6

           Kratz Springs                         WR1220            C3    N                                                                 04B CRN - CRANBROOK

    ------------ Total of 1 Licence Reported ------------
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Stream Register Report      Water Licence Information System
_____________________________________________________________

    Report Requested By   : CMOCUE
    Date Report Requested : 1996/01/18 13:12
    Report Sorted By      : Source Gazetted - Priority Date - Licence Number
    Selection Criteria
                START POINT      : M02934 - Cherry Creek right of Mather Creek
                END POINT        : S02980 - Mather Creek right of Kootenay River (Upper)
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Stream Register Report                                        Water Licence Information System                                          DATE: 1996/01/18
                                                                                                                                         TIME: 13:13
                                                                                                                                         PAGE: 001

Priority   Licence File    Appurtenancy                    Licensee                       PUC        Quantity/Units  Term   Term  Licence Comments             Process Status
YYYY/MM/DD Number  Number                                                                                            Start  End

           Source                         WR Map           POD  RED POD Comments                                                      Prec
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1903/05/19 C036650 0242243 28.53 AC OF L 711 KOOTENAY DIST  421764 BC LTD INC 421764       DOM           500.00 GD Jan 01 Dec 31
                                                            915B BAKER ST                  IRR            71.33 AF Apr 01 Sep 30
                                                            CRANBROOK BC
                                                            V1C1A4

           Mather Creek                   WR1200             U    N                                                                   06A CRN - CHERRY CREEK

1903/03/06 C048135 0265709 121.2 AC OF L 1235 KOOTENAY DIST VLACHOS TOM                    IRR           303.00 AF Apr 01 Sep 30
                                                            PO BOX 863
                                                            CRANBROOK BC
                                                            V1C4J6

           Mather Creek                   WR1200             Y    N                                                                   06A CRN - CHERRY CREEK

1911/07/26 C068937 0265517 69.4 AC OF SUBLOTS 15 & 16 OF DL 339 ST MARYS INDIAN BAND      DOM         1,000.00 GD Jan 01 Dec 31 INDUSTRIAL - STOCK WATERING
                           KOOTENAY DIST PLAN X40           981-602-7422                   SW          2,000.00 GD Jan 01 Dec 31
                                                            SS1 SITE 15 MISSION RD         IRR           173.50 AF Apr 01 Sep 30
                                                            CRANBROOK BC
                                                            V1C4H4

           Mather Creek                   WR1202             FF   N                                                                   06A CRN - CHERRY CREEK
               Mather Creek               WR1202             EE   N

1937/04/30 F011642 0127865 40 AC OF L 655 & 656 KOOTENAY    WILDLIFE BRANCH                IRR           100.00 AF Apr 01 Sep 30
                           DIST                             617 VERNON ST
                                                            NELSON BC
                                                            V1L4E9

           Mather Creek                   WR1200             P    N                                                                   06A CRN - CHERRY CREEK
               Mather Creek               WR1200             R    N
               Mather Creek               WR1200             J    N

1941/07/29 C039265 0144372 6.5 AC OF L 1 OF L 11074 KOOTENAY BERZOWSKI KONRAD & ASTRID     IRR            16.27 AF Apr 01 Sep 30
                           DIST PLAN 5467                   SS 1 SITE 14 BOX 7
                                                            KIMBERLEY BC
                                                            V1A2Y3

           Mather Creek                   WR1202             E    N                                                                   06A CRN - CHERRY CREEK
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Priority   Licence File    Appurtenancy                          Licensee                                 PUC           Quantity/Units  Term   Term  Licence Comments                         Process Status
YYYY/MM/DD Number  Number                                                                                                               Start  End

           Source                              WR Map               POD   RED POD Comments                                                                    Prec

1941/07/29 C039247 0309730 3.22 AC OF L D OF L 11074             PIECHATZEK OSWALD                        IRR                  8.03 AF Apr 01 Sep 30                                          AND UNDER AMENDMENT
                           KOOTENAY DIST PLAN 7374               SS 1 SITE 14 BOX 21
                                                                 KIMBERLEY BC
                                                                 V1A2Y3

           Mather Creek                        WR1202               X     N                                                                                   06A CRN - CHERRY CREEK

1941/07/29 C039248 0309731 3.11 AC OF L C OF L 11074             BRYANT M J & UNRUH J J                   IRR                  7.77 AF Apr 01 Sep 30
                           KOOTENAY DIST PLAN 7374               SS 1 SITE 13 BOX 21
                                                                 KIMBERLEY BC
                                                                 V1A2Y3

           Mather Creek                        WR1202               Y     N                                                                                   06A CRN - CHERRY CREEK

1960/07/05 C108496 0231099 DISTRICT LOT 15488 KOOTENAY DISTRICT  HOWE FRED E                              DOM              1,000.00 GD Jan 01 Dec 31 DOMESTIC TIED TO TWO DWELLINGS
                           EXCEPT PARCEL A (SEE 157910I)         SITE 17 BOX 2 SS 1
                                                                 KIMBERLEY BC
                                                                 V1A2Y3

           Mather Creek                        WR1202               JJ    N                                                                                   06A CRN - CHERRY CREEK

1960/07/05 C108497 4002635 PARCEL A (SEE 157910I) OF DISTRICT LO HOWE ENOLA A                             DOM                500.00 GD Jan 01 Dec 31
                           T 15488 KOOTENAY DISTRICT EXCEPT PART SITE 17 BOX 2 SS 1
                           IN PLAN 8916                          KIMBERLEY BC
                                                                 V1A2Y3

           Mather Creek                        WR1202               JJ    N                                                                                   06A CRN - CHERRY CREEK

1960/07/05 C108498 4002636 LOT 1 DISTRICT LOT 15488 KOOTENAY DIS HOWE FRED E                              DOM                500.00 GD Jan 01 Dec 31
                           TRICT PLAN 8916                       SITE 17 BOX 2 SS 1
                                                                 KIMBERLEY BC
                                                                 V1A2Y3

           Mather Creek                        WR1202               JJ    N                                                                                   06A CRN - CHERRY CREEK
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Stream Register Report                                    Water Licence Information System                                          DATE: 1996/01/18
                                                                                                                                       TIME: 13:12
                                                                                                                                       PAGE: 003

Priority   Licence File    Appurtenancy                     Licensee                       PUC        Quantity/Units  Term   Term  Licence Comments                 Process Status
YYYY/MM/DD Number  Number                                                                                              Start  End

        Source                          WR Map          POD   RED POD Comments                                                 Prec
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1960/07/05 C108499 4002637 LOT 2 DISTRICT LOT 15488 KOOTENAY DIS GILES JAMES F AND SUSAN A        DOM          500.00 GD Jan 01 Dec 31
                           TRICT PLAN 8916                      SITE 17 BOX 7 SS 1
                                                                KIMBERLEY BC
                                                                V1A2Y3

        Mather Creek                    WR1202           J     N                                                               06A CRM - CHERRY CREEK

1960/07/05 C108500 4002638 LOT 3 DISTRICT LOT 15488 KOOTENAY DIS TOOZE DONALD G AND LINDA M       DOM          500.00 GD Jan 01 Dec 31
                           TRICT PLAN 8916                      SS 1 BOX 8 SITE 17
                                                                KIMBERLEY BC
                                                                V1A2Y5

        Mather Creek                    WR1202           KK    N                                                               06A CRM - CHERRY CREEK

1960/07/05 C108501 4002639 LOT 4 DISTRICT LOT 15488 KOOTENAY DIS JAKOBSSON BENJT A                DOM          500.00 GD Jan 01 Dec 31
                           TRICT PLAN 8916                      SS1 SITE 16-5
                                                                KIMBERLEY BC
                                                                V1A2Y3

        Mather Creek                    WR1202           LL    N                                                               06A CRM - CHERRY CREEK

1962/03/29 C046613 0243308 L 1 OF L 11077 KOOTENAY DIST PLAN    RITSCH TITUS & CHRISTEL          DOM          500.00 GD Jan 01 Dec 31
                           6907                                 PO BOX 27 SITE 13
                                                                KIMBERLEY BC
                                                                V1A2Y3

        Mather Creek                    WR1202           K     N                                                               06A CRM - CHERRY CREEK

1962/03/29 C046614 0330568 L 2 OF L 11077 KOOTENAY DIST PLAN    DUBE WILLIAM R                   DOM          500.00 GD Jan 01 Dec 31
                           6907 EXC ELY 585 FT                  251 SPOKANE ST
                                                                KIMBERLEY BC
                                                                V1A2E6

        Mather Creek                    WR1202           K     N                                                               06A CRM - CHERRY CREEK
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Priority   Licence File    Appurtenancy                          Licensee                                PUC           Quantity/Units  Term   Term  Licence Comments                         Process Status
YYYY/MM/DD Number  Number                                                                                                              Start  End

           Source                             WR Map               POD   RED POD Comments                                                    Prec

1963/12/12 F020622 0247493 THAT PART OF BLK 20 OF L 11304        O'GRADY JOHN R                          DOM                500.00 GD Jan 01 Dec 31
                           KOOTENAY DIST PLAN 2575 LYING W       SITE 16 BOX 2 RR 1
                           OF A LINE PARALLEL TO & 20 FT         KIMBERLEY BC
                           DISTANT FROM ELY BDY OF SAID BLK      V1A2Y3

           Mather Creek                       WR1202               L     N                                                                   06A CRN - CHERRY CREEK

1964/04/28 F020275 0269057 L 4 OF L 11074 KOOTENAY DIST PLAN     BRYANT ARTHUR E & GRETCHEN A            DOM                500.00 GD Jan 01 Dec 31
                           5467                                  SITE 13 BOX 28 RR 1
                                                                 KIMBERLEY BC
                                                                 V1A2Y3

           Mather Creek                       WR1202               P     N                                                                   06A CRN - CHERRY CREEK

1966/08/08 C032185 0270341 120 AC OF L 711, NW 1/4 OF L 9397     421764 BC LTD INC 421764                DOM                500.00 GD Jan 01 Dec 31                                          A/A APPORTIONMENT PEND
                           & L A OF L 710 & 4255 PLAN 5606       915B BAKER ST                           IRR                330.00 AF Apr 01 Sep 30
                           ALL OF KOOTENAY DIST                  CRANBROOK BC
                                                                 V1C1A4

           Mather Creek                       WR1200               U     N                                                                   06A CRN - CHERRY CREEK
               Mather Creek                   WR1200               V     N

1966/08/09 C048136 0270343 235 AC OF L 1235, NE 1/4 OF L         HANSEN MAURICE F                        IRR                646.00 AF Apr 01 Sep 30                                          A/A APPORTIONMENT PEND
                           9397 & L 1043 EXC ELY 20 CHAINS       PO BOX 151
                           KOOTENAY DIST                         KIMBERLEY BC
                                                                 V1A2Y6

           Mather Creek                       WR1200               Y     N                                                                   06A CRN - CHERRY CREEK

1968/02/09 C034533 0277565 90 AC OF L 655 & 656 KOOTENAY         WILDLIFE BRANCH                         IRR                225.00 AF Apr 01 Sep 30
                           DIST                                  617 VERNON ST
                                                                 NELSON BC
                                                                 V1L4E9

           Mather Creek                       WR1200               R     N                                                                   06A CRN - CHERRY CREEK
               Mather Creek                   WR1200               P     N
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Stream Register Report
                                                          Water Licence Information System
                                                                                                                       DATE: 1996/01/18
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Priority   Licence File    Appurtenancy                        Licensee                        PUC        Quantity/Units  Term   Term  Licence Comments
YYYY/MM/DD Number  Number                                                                                                  Start  End                          Process Status

        Source                          WR Map          POD    RED POD Comments
                                                                                                                       Prec
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1968/12/24 C035864 0295885 L 2 OF L 12722 KOOTENAY DIST PLAN     HUSSEY EDMUND & HILDA M          DOM        500.00 GD Jan 01 Dec 31
                           6232 EXC PLAN 8790 & 10355            RR 1 COMP 2 SITE 13
                                                                 KIMBERLEY BC
                                                                 V1A2Y3

        Mather Creek                    WR1202           Q      N
                                                                                                                       06A CRN - CHERRY CREEK

1970/03/31 C036861 0296197 L 1 OF L 11074 KOOTENAY DIST PLAN     BERKOWSKI KONRAD & ASTRID        DOM        500.00 GD Jan 01 Dec 31
                           5467                                  RR 1 SITE 14 BOX 7
                                                                 KIMBERLEY BC
                                                                 V1A2Y3

        Mather Creek                    WR1202           E      N
                                                                                                                       06A CRN - CHERRY CREEK

1971/04/01 C039061 0300973 UCL KOOTENAY DIST HELD UNDER HWY      TRANSPORTATION & HIGHWAYS MINISTRY OF   DOM   2,000.00 GD Jan 01 Dec 31
                           RESERVE 0298670                       KOOTENAYS REGION
                                                                 310 WARD ST
                                                                 NELSON BC
                                                                 V1L5S4

        Mather Creek                    WR1202           W      N
                                                                                                                       06A CRN - CHERRY CREEK

1975/05/28 C050056 0328829 100 AC OF L 711, NW 1/4 OF L 9397     421764 BC LTD INC 421764         DOM      2,000.00 GD Jan 01 Dec 31
                           & L A OF L 710 & 6255 PLAN 5606       9158 BAKER ST                    IRR        250.00 AF Apr 01 Sep 30                         A/A APPORTIONMENT PEND
                           ALL OF KOOTENAY DIST                  CRANBROOK BC
                                                                 V1C1A4

        Mather Creek                    WR1200           I      N
            Mather Creek                WR1200           U      N                                                      06A CRN - CHERRY CREEK
            Mather Creek                WR1200           V      N

1978/11/03 C053976 0364837 L 1235 KOOTENAY DIST                  VLACHOS TOM                      DOM      2,000.00 GD Jan 01 Dec 31
                                                                 PO BOX 863
                                                                 CRANBROOK BC
                                                                 V1C4J6

        Mather Creek                    WR1200           AA     N
                                                                                                                       06A CRN - CHERRY CREEK
```

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Priority   Licence File   Appurtenancy                          Licensee                         PUC        Quantity/Units Term   Term  Licence Comments                   Process Status
YYYY/MM/DD Number  Number                                                                                                  Start  End

           Source                      WR Map               POD   RED POD Comments                                                      Prec
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
1979/04/09 C053773 0365397 CONS PROJECT OF LICENSEE WITHIN      WILDLIFE BRANCH                  CONST          65.00 AF Apr 01 Jun 30 STOR IN FARRAR MARSH
                           L 656 & 11045 KOOTENAY DIST          617 VERNON ST
                                                                NELSON BC
                                                                V1L4X9

           Mather Creek                WR1200                BB    N                                                                    06A CRN - CHERRY CREEK

1979/04/09 C053817 0365398 CONS PROJECT OF LICENSEE WITHIN      DUCKS UNLIMITED (CANADA)         CONST         130.00 AF Apr 01 Jun 30 STOR IN FARRELL MARSH
                           IR 1 KOOTENAY DIST                   BOX 357
                                                                CRESTON BC
                                                                V0B1G0

           Mather Creek                WR1200                BB    N                                                                    06A CRN - CHERRY CREEK

1980/11/07 C056996 0367473 L 1 OF L 12722 KOOTENAY DIST PLAN    HANSON JAMES C & KIM             DOM           500.00 GD Jan 01 Dec 31
                           8790                                 SITE 13 BOX 22 SS 1
                                                                KIMBERLEY BC
                                                                V1A2Y3

           Mather Creek                WR1202                DD    N                                                                    06A CRN - CHERRY CREEK

1983/03/15 C060014 4000004 40 AC OF BLK 9,10,15 & 16 OF         ST MARYS INDIAN BAND             IRR           100.00 AF Apr 01 Sep 30
                           L 339 KOOTENAY DIST PLAN X60         981-602-7622
                                                                SS1 SITE 15 MISSION RD
                                                                CRANBROOK BC
                                                                V1C4H4

           Mather Creek                WR1202                EE    N                                                                    06A CRN - CHERRY CREEK
              Mather Creek             WR1202                FF    N

1984/02/27 C067662 4000400 BLKS 12 & 13 OF L 11304 KOOTENAY     LA FRENIERE DWIGHT & DIANNE J    DOM           500.00 GD Jan 01 Dec 31
                           DIST PLAN 2575                       SITE 16 BOX 9 SS 1
                                                                KIMBERLEY BC
                                                                V1A2Y3

           Mather Creek                WR1202                GG    N                                                                    06A CRN - CHERRY CREEK
```

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Priority   Licence File    Appurtenancy                          Licensee                          PUC        Quantity/Units  Term   Term  Licence Comments                   Process Status
YYYY/MM/DD Number  Number                                                                                                 Start  End

        Source                         WR Map                   POD   RED POD Comments                                             Prec
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------
1987/05/19 C066025 4001241 PMRSE ON UCL & APPURTENANT TO THAT   HOME FRED E                       PRCOM          9.00 CS Jan 01 Dec 31
                           PART OF L 15488 LYING W OF PARALLEL  SITE 17 BOX 2 SS 1
                           LINE 800 FT PERPENDICULAR FROM E BDY KIMBERLEY BC
                           & N OF HWY 95A (PLAN 6423) ALL       V1A2Y3
                           KOOTENAY DIST

        Mather Creek                   WR1202                    HH    N                                                           06A CRN - CHERRY CREEK

1990/07/01 F020107 0270438 L 3 OF L 11074 KOOTENAY DIST PLAN    JARRETT REA                       DOM          500.00 GD Jan 01 Dec 31
                           5467                                 SS 1 BOX 19 SITE 14
                                                                KIMBERLEY BC
                                                                V1A2Y3

        Mather Creek                   WR1202                    N     N                                                           06A CRN - CHERRY CREEK

1990/09/05 C100651 4002105 DISTRICT LOT 710 KOOTENAY DISTRICT EX HILLS BEVERLEY & KOCH AGNES B    DOM        1,000.00 GD Jan 01 Dec 31
                           CEPT (1) PARCEL A (REFERENCE PLAN    COOLEY NANCY J & OLSON BYRON E    IRR           66.50 AF Apr 01 Sep 30
                           49500I) AND (2) PARTS INCLUDED IN PLA C/O 232 SPOKANE ST
                           NS 5606 6331 17640                   KIMBERLEY BC
                                                                V1A2H4

        Mather Creek                   WR1200                    JJ    N   DIVERSION AT 1200 HH                                    06A CRN - CHERRY CREEK
                                                                           DIVERSION AT 1200 MM
           Mather Creek                WR1200                    HH    N   DIVERSION AT 1200 MM
                                                                           DIVERSION AT 1200 JJ
           Mather Creek                WR1200                    MM    N   DIVERSION AT 1200 HH
                                                                           DIVERSION AT 1200 JJ

1990/09/24 Z100450 4002114 L A & B OF DL 710 KOOTENAY DIST PLAN WOODS OLA                         DOM          500.00 GD Jan 01 Dec 31                                     APP APPLIC-CLEARED
                           6331                                 BOX 1                             IRR            6.00 AF Apr 01 Sep 30
                                                                KIMBERLEY BC
                                                                V1A2Y5

        Mather Creek                   WR1200                    KK    N                                                           06A CRN - CHERRY CREEK
           Mather Creek                WR1200                    LL    N
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Stream Register Report                                   Water Licence Information System                              DATE: 1996/01/18
                                                                                                                        TIME: 13:12
                                                                                                                        PAGE: 008

Priority   Licence File   Appurtenancy                 Licensee                 PUC        Quantity/Units  Term   Term  Licence Comments          Process Status
YYYY/MM/DD Number  Number                                                                                  Start  End

        Source                       WR Map            POD   RED POD Comments                                             Prec
------------------------------------------------------------------------------------------------------------------------------------------------------

1992/06/04 Z104874 4002471 L 4 DL 15805 KOOTENAY DIST PLAN 15929 YOST THOMAS A           DOM        250.00 GD Jan 01 Dec 31                 APP APPLIC-CLEARED
                                                                 YOST DONNA L            IRR         15.00 AF Apr 01 Sep 30
                                                                 PO BOX 370
                                                                 KIMBERLEY BC
                                                                 V1A2Y9

        Mather Creek                 WR1202              HH    H                                          06A CRH - CHERRY CREEK

     ------------ Total of 35 Licences Reported ------------
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Stream Register Report     Water Licence Information System
_______________________________________________________________

    Report Requested By    : KBABCOCK
    Date Report Requested  : 1995/12/20 11:48
    Report Sorted By       : Source Gazetted - Priority Date - Licence Number
    Selection Criteria
               START POINT      : PD23128 - 1222 L
               END POINT        : 802687 - Mayook Creek right of Kootenay River (Upper)
```

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Stream Register Report                                        Water Licence Information System                                  DATE: 1995/12/20
                                                                                                                                 TIME: 11:40
                                                                                                                                 PAGE: 001

Priority   Licence File    Appurtenancy                       Licensee                       PUC       Quantity/Units  Term   Term  Licence Comments            Process Status
YYYY/MM/DD Number  Number                                                                                              Start  End

           Source                               WR Map          POD  RED POD Comments                                                         Prec
----------------------------------------------------------------------------------------------------------------------------------------------------------------------
1935/06/07 F013370 0121095 8.4 AC OF BLK A OF L 12748        SCHNIDERER KARL & ANNA & KARL S  IRR          21.00 AF Apr 01 Sep 30
                           KOOTENAY DIST                      HUMMEL JEAN S
                                                              SITE 17 COMP 37 SS 1
                                                              CRANBROOK BC
                                                              V1C4H6

           Maycok Creek                         WR1222          K    N                                                                    06B CRN - CRANBROOK
              Maycok Creek                      WR1222          L    N

1967/09/15 C033206 0277107 PROJECT OF LICENSEE 7244 ON L      FOREST DISTRICT - CRANBROOK      SW        2,000.00 GD Jan 01 Dec 31
                           10144 KOOTENAY DIST                1902 THEATRE RD
                                                              CRANBROOK BC
                                                              V1C4H4

           Maycok Creek                         WR1222          N    N                                                                    06B CRN - CRANBROOK

1972/04/13 C046191 0309942 CONS PROJECT OF LICENSEE WITHIN    DUCKS UNLIMITED (CANADA)         CONST       100.00 AF Jan 01 Dec 31 WATERFOWL HABITAT ENHANCEMENT
                           L 125 KOOTENAY DIST                BOX 357
                                                              CRESTON BC
                                                              V0B1G0

           Maycok Creek                         WR1222          Q    N                                                                    06B CRN - CRANBROOK

1980/07/25 C058841 0366990 CONS PROJECT OF LICENSEE IN        DUCKS UNLIMITED (CANADA)         CONWK       125.00 AF Jan 01 Dec 31
                           L 125 & SL A OF L 4590, KOOTENAY   BOX 357
                           DIST EXC PLAN 7436 & R-177         CRESTON BC
                                                              V0B1G0

           Maycok Creek                         WR1222          W    N                                                                    06B CRN - CRANBROOK

     ------------ Total of 4 Licences Reported ------------
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Stream Register Report      Water Licence Information System
_____________________________________________________________

    Report Requested By    : DMCOUS
    Date Report Requested : 1996/01/18 15:36
    Report Sorted By       : Source Gazetted - Priority Date - Licence Number
    Selection Criteria
                START POINT      : H02528 - St. Mary Lake on St. Mary River
                END POINT        : H02495 - St. Mary River right of Kootenay River (Upper)
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Stream Register Report                                      Water Licence Information System                                       DATE: 1996/01/18
                                                                                                                                   TIME: 15:36
                                                                                                                                   PAGE: 001

Priority   Licence File    Appurtenancy                    Licensee                  PUC     Quantity/Units  Term   Term  Licence Comments           Process Status
YYYY/MM/DD Number  Number                                                                                    Start  End

        Source                        WR Map              POD   RED POD Comments                                            Prec
---------------------------------------------------------------------------------------------------------------------------------------------------------------
1896/08/23 C067359 0241152 1075 AC OF SE PART OF IR 01 ST   ST MARYS INDIAN BAND      DOM        30,000.00 GD Jan 01 Dec 31
                           MARY, KOOTENAY DIST              981-602-7422              IRR         2,688.00 AF Apr 01 Sep 30
                                                            #81 SITE 15 MISSION RD
                                                            CRANBROOK BC
                                                            V1C4H6

        St. Mary River                WR1342                 A    N                                                         06G CRN - ST MARY

1950/09/26 F016488 0186153 L 12945 & 6626 KOOTENAY DIST     COMINCO LTD               PROCE    8,615,264.00 GD Jan 01 Dec 31
                                                            KIMBERLEY OPERATIONS
                                                            C/O CONTROLLER
                                                            PO BAG 2000
                                                            KIMBERLEY BC
                                                            V1A3E1

        St. Mary River                WR1341                 H    N                                                         06G CRN - ST MARY

1951/07/12 C020477 0189836 WWK UNDERTAKING OF LICENSEE      KIMBERLEY CITY OF         WWELA   73,000,000.00 GY Jan 01 Dec 31
                                                            340 SPOKANE ST
                                                            KIMBERLEY BC
                                                            V1A2E8

        St. Mary River                WR1341                 H    N                                                         06G CRN - ST MARY

1966/01/24 C031430 0267159 L 1 OF IR #1 KOOTENAY, KOOTENAY  FORESTS MINISTRY OF       FPROT       50,000.00 GD Jan 01 Dec 31 FIRE PROTECTION
                           DIST                             NELSON REGION
                                                            518 LAKE ST
                                                            NELSON BC
                                                            V1L4C6

        St. Mary River                WR1342                 B    N                                                         06G CRN - ST MARY

1973/11/09 C048939 0322153 ALL THE LANDS WITHIN THE BDYS OF KIMBERLEY CITY OF         WWELA  219,000,000.00 GY Jan 01 Dec 31
                                                            340 SPOKANE ST
                                                            KIMBERLEY BC
                                                            V1A2E8

        St. Mary River                WR1341                 H    N                                                         06G CRN - ST MARY
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Stream Register Report                                  Water Licence Information System                                      DATE: 1996/01/18
                                                                                                                               TIME: 15:36
                                                                                                                               PAGE: 002

Priority   Licence File    Appurtenancy                     Licensee                             PUC       Quantity/Units  Term   Term  Licence Comments                    Process Status
YYYY/MM/DD Number  Number                                                                                                  Start  End

           Source                        WR Map            POD   RED POD Comments                                                         Prec
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1975/09/02 C048457 0329431 4.6 AC OF PARCEL A OF L 6543     BUHR CLARENCE E & E JANE             IRR           13.80 AF Apr 01 Sep 30
                           KOOTENAY DIST EXC PLAN 29979I    SS 3 SITE 19-37
                                                            CRANBROOK BC
                                                            V1C6H3

           St. Mary River                WR1340              H     N                                                                      06G CRN - ST MARY

1975/12/19 C050050 0330052 150 AC OF L 1 EXC EXP PLAN 20074I PIGNIN ERNEST F                     IRR          300.00 AF Apr 01 Sep 30
                           & C/T 1516K & L 2 ALL OF KOOTENAY SITE 15-37  SS 3
                           DIST EXC CPR R/W (PLAN 8353)     CRANBROOK BC
                                                            V1C6H3

           St. Mary River                WR1220              I3    N                                                                      06B CRN - CRANBROOK

1977/03/25 C050428 0341000 L 2396 KOOTENAY DIST             COMINCO LTD                          LDIMP          0.00 TF Jan 01 Dec 31
                                                            KIMBERLEY OPERATIONS
                                                            C/O CONTROLLER
                                                            PO BAG 2000
                                                            KIMBERLEY BC
                                                            V1A3E1

           St. Mary River                WR82G/12W(e)        A     N                                                                      06G CRN - ST MARY

1978/11/20 C053186 0364005 ALL THE LANDS WITHIN BDYS OF     ST MARY'S PRAIRIE IRRIGATION DISTRICT IRRLA     2,500.00 AF Apr 01 Sep 30
                                                            SS 3 SITE 19  #23
                                                            CRANBROOK BC
                                                            V1C6H3

           St. Mary River                WR1340              Q     N                                                                      06G CRN - ST MARY

1980/06/06 C056716 0366696 120 AC OF L 1758; L 494; PARCEL A ST MARYS INDIAN BAND                 IRR          357.50 AF Apr 01 Sep 30
                           (C/T 1516K),PARCEL A & B (EXP    981-602-7422
                           PLAN 20655A),L 1 & 2 OF (EXP PLAN SS1 SITE 15 MISSION RD
                           20074I) OF L 1 ALL KOOTENAY DIST CRANBROOK BC
                           EXC R/W PLAN 8353                V1C6H6

           St. Mary River                WR12[illegible]0    A4    N                                                                      06B CRN - CRANBROOK
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Priority   Licence File    Appurtenancy                     Licensee                       PUC       Quantity/Units  Term   Term  Licence Comments               Process Status
YYYY/MM/DD Number  Number                                                                                            Start  End

           Source                         WR Map            POD   RED POD Comments                                                   Prec
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

1981/08/26 C069563 0369073 DL 8768 KOOTENAY DIST EXC PLANS 14768 HURST ROLAND              IRR             50.00 AF Apr 01 Sep 30
                            & 16029                          PO BOX 595
                                                             CRANBROOK BC
                                                             V1C4J1

           St. Mary River                 WR1340              W     N                                                                06G CRN - ST MARY

1982/04/16 C060825 4000017 170 AC OF L 3 & L 1036 KOOTENAY      PIGHIN ERNEST F            IRR            425.00 AF Apr 01 Sep 30
                           DIST EXC R/W PLAN 8353            SITE 15-37  RR 3
                                                             CRANBROOK BC
                                                             V1C6H3

           St. Mary River                 WR1223              L     N                                                                06B CRN - CRANBROOK

1983/04/13 C063193 4000279 120 AC OF W 1/2 OF E 1/2 OF       M & J MACLEOD RANCHING CO LTD IRR            360.00 AF Apr 01 Sep 30
                           NW 1/4 OF DL 431 KOOTENAY DIST    RR 3 BOX 54 SITE 5
                                                             CRANBROOK BC
                                                             V1C6H3

           St. Mary River                 WR1223              M     N                                                                06B CRN - CRANBROOK

1988/12/12 Z100030 4001604 PARTS OF DL 2045 - SEE FILE       PETERSEN TOM                   DOM         1,500.00 GD Jan 01 Dec 31 STOCK WATERING                 APP APPLIC-CLEARED
                                                             AUCOIN EDSEL                   SW            300.00 GD Jan 01 Dec 31
                                                             C/O KEN CONNERS                IRR           320.00 AF Apr 01 Sep 30
                                                             PO BOX 399
                                                             MARYSVILLE BC
                                                             V0B1Z0

           St. Mary River                 WR1340              GG    N                                                                06G CRN - ST MARY

1991/09/30 C103524 4002331 LOT 1 OF DISTRICT LOTS 5267 AND 9877 BARRETT EVELYN A           NURS            44.00 AF Jul 01 Aug 31
                           KOOTENAY DISTRICT PLAN NEP21399   PO BOX 730
                                                             CRANBROOK BC
                                                             V1C4J5

           St. Mary River                 WR1220              F4    N                                                                06B CRN - CRANBROOK
               St. Mary River             WR1220              G4    N

      ------------ Total of 15 Licences Reported ------------
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CARSON CREEK NEAR PROCTER - STATION NO. 08NJ044

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1925	---	---	---	---	---	---	0.014	0.011	0.009	---	---	---	---	1925
1926	---	---	---	0.015	0.013	0.007	0.006	0.005	0.005	---	---	---	---	1926
1927	---	---	---	---	0.031	0.030	0.015	0.011	0.013	---	---	---	---	1927
1930	---	---	---	---	0.012	0.013	0.007	0.005	0.005	---	---	---	---	1930
1940	---	---	---	---	---	---	---	0.008	0.008	---	---	---	---	1940
1941	---	---	---	---	0.017	0.010	0.009	0.008	0.011	---	---	---	---	1941
1943	---	---	---	---	---	0.035	---	---	---	---	---	---	---	1943
MEAN	---	---	---	0.015	0.018	0.019	0.010	0.008	0.009	---	---	---	---	MEAN

LOCATION - LAT 49 37 15 N DRAINAGE AREA, 2.05 km²
LONG 116 56 50 W NATURAL FLOW

CARSON CREEK NEAR PROCTER - STATION NO. 08NJ044

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1925	---	---	0.008 ON SEP 15	---	1925
1926	---	0.020 ON APR 16	0.003E ON AUG 11 *	---	1926
1927	---	0.045 ON MAY 17 *	0.008 ON APR 23	---	1927
1930	---	0.017 ON MAY 31	0.003 ON SEP 30	---	1930
1940	---	---	0.007E ON AUG 18	---	1940
1941	---	0.018 ON MAY 05	0.007 ON AUG 10	---	1941
1943	---	---	---	---	1943
				---	MEAN

E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

CASINO CREEK NEAR TRAIL - STATION NO. 08NE055

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1939	---	---	---	---	---	---	---	0.001	0.001	---	---	---	---	1939
1955	---	---	---	---	---	---	---	0.002	0.001	---	---	---	---	1955
1956	---	---	---	---	---	0.014	0.003	0.001	0.001	---	---	---	---	1956
1957	---	---	---	---	---	0.014	0.002	0.001	0.001	---	---	---	---	1957
MEAN	---	---	---	---	---	0.014	0.003	0.001	0.001	---	---	---	---	MEAN

LOCATION - LAT 49 03 05 N DRAINAGE AREA, 0.91 km²
LONG 117 39 40 W NATURAL FLOW

CASINO CREEK NEAR TRAIL - STATION NO. 08NE055

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1939	---	---	---	---	1939
1955	---	---	---	---	1955
1956	---	---	---	---	1956
1957	---	---	---	---	1957
				---	MEAN

CASSIMAYOOK CREEK NEAR BAKER - STATION NO. 08NG031

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1928	---	---	---	---	0.139	0.063	0.077	0.027	0.018	---	---	---	---	1928
1929	---	---	---	0.033	0.074	0.063	0.017	0.008	0.011	---	---	---	---	1929
1930	---	---	---	---	0.068	0.074	0.022	0.010	0.013	---	---	---	---	1930
1931	---	---	---	---	---	0.019	0.010	0.006	0.011	---	---	---	---	1931
MEAN	---	---	---	0.033	0.094	0.055	0.032	0.013	0.013	---	---	---	---	MEAN

LOCATION - LAT 49 30 27 N DRAINAGE AREA, 23.1 km²
LONG 115 36 08 W NATURAL FLOW

CASSIMAYOOK CREEK NEAR BAKER - STATION NO. 08NG031

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1928	---	0.198 ON MAY 10 *	0.014 ON SEP 05	---	1928
1929	---	0.133 ON MAY 24	0.006 ON AUG 11	---	1929
1930	---	0.170 ON JUN 03	0.007 ON AUG 30	---	1930
1931	---	---	0.003 ON AUG 10 *	---	1931
				---	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

CAVEN CREEK BELOW BLOOM CREEK - STATION NO. 08NG078

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	---	---	---	---	---	---	---	---	0.957	0.771	---	1972
1973	0.720	0.607	0.657	1.79	5.73	3.51	1.07	0.603	0.624	0.700	1.05	1.62	1.56	1973
1974	2.14	1.16	1.24	6.73	13.2	12.6	3.01	1.48	1.11	0.921	1.09	0.851	3.80	1974
1975	0.771	0.627	0.673	1.39	8.84	6.73	1.67	1.24	0.987	1.10	1.32	2.77	2.35	1975
1976	1.30	0.978	0.836	4.84	13.7	5.40	2.15	1.36	0.994	0.879	0.832	0.735	2.84	1976
1977	0.704	0.575	0.596	1.63	2.63	1.37	0.605	0.501	0.560	0.563	0.631	0.520	0.908	1977
1978	0.530	0.520	1.01	3.35	8.93	5.96	2.43	1.17	0.956	0.787	0.795	0.556	2.34	1978
1979	0.516	0.577	0.750	1.29	5.30	2.39	0.864	0.525	0.466	0.503	0.469	0.693	1.20	1979
1980	0.502	0.600	0.617	4.82	8.28	2.95	1.24	0.899	0.860	0.690	0.891	1.54	1.99	1980
1981	1.33	1.04	1.14	3.56	9.64	7.66	3.17	1.55	1.14	1.05	0.899	0.666	2.76	1981
1982	0.676	1.14	1.01	2.35	9.73	6.44	2.59	1.13	0.965	0.886	0.806	0.975	2.40	1982
1983	0.924	0.858	1.55	4.20	10.1	5.02	2.72	1.40	0.972	0.896	1.55	0.601	2.59	1983
1984	1.11	0.756	0.790	2.34	4.65	5.43	1.54	0.723	0.702	0.659	0.657	0.506	1.65	1984
1985	0.486	0.391	0.465	2.25	6.44	3.22	0.849	0.567	0.801	1.32	1.59	0.628	1.61	1985
1986	0.826	1.10	2.99	5.44	7.79	3.68	1.42	0.851	0.834	0.814	0.612	0.836	2.29	1986
1987	0.669	0.684	1.38	4.40	5.84	1.47	0.980	0.620	0.532	0.490	0.426	0.374	1.50	1987
1988	0.399	0.386	0.526	3.14	4.67	2.56	0.848	0.519	0.560	0.565	0.647	0.515	1.30	1988
1989	0.578	0.507	0.533	5.32	12.6	5.63	1.35	1.05	0.963	0.859	1.19	0.634	2.63	1989
1990	0.871	0.785	0.914	7.28	10.5	12.5	3.03	1.47	0.959	1.02	1.90	1.55	3.57	1990
MEAN	0.836	0.738	0.982	3.67	8.33	5.26	1.75	0.981	0.834	0.817	0.974	0.945	2.18	MEAN

LOCATION - LAT 49 11 18 N   DRAINAGE AREA, 313 km²
LONG 115 26 11 W   NATURAL FLOW

CAVEN CREEK BELOW BLOOM CREEK - STATION NO. 08NG078

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1972	---	---	---	---	1972
1973	14.1 AT 01:49 MST ON MAY 18	12.1 ON MAY 18	0.493 ON MAR 05	49 300	1973
1974	26.1 AT 01:57 MST ON MAY 08	23.3 ON MAY 08	0.544B ON JAN 07	120 000	1974
1975	18.5 AT 02:00 MST ON MAY 16	16.4 ON MAY 16	0.572B ON JAN 11	74 200	1975
1976	35.4 AT 04:40 MST ON MAY 11 *	28.3 ON MAY 11 *	0.465B ON DEC 31	89 700	1976
1977	5.38 AT 17:58 MST ON MAY 02	4.53 ON MAY 11	0.337 ON AUG 20	28 600	1977
1978	14.9 AT 04:37 MST ON MAY 22	14.0 ON MAY 22	0.413B ON JAN 03	73 900	1978
1979	8.01 AT 01:59 MST ON MAY 24	7.49 ON MAY 24	0.352 ON SEP 29	37 900	1979
1980	---	15.0 E ON APR 30	0.406B ON JAN 29	63 100	1980
1981	14.9 AT 02:00 MST ON MAY 26	13.5 ON MAY 24	0.535B ON DEC 31	87 200	1981
1982	18.5 AT 02:30 MST ON MAY 26	15.9 ON MAY 26	0.503B ON JAN 06	75 600	1982
1983	19.4 AT 02:46 MST ON MAY 26	17.5 ON MAY 26	0.656B ON JAN 25	81 700	1983
1984	10.3 AT 01:32 MST ON MAY 31	9.30 ON MAY 31	0.390B ON DEC 31	52 300	1984
1985	11.7 AT 02:04 MST ON MAY 20	10.2 ON MAY 20	0.325B ON FEB 04	50 700	1985
1986	14.1 AT 23:08 MST ON APR 22	11.7 ON MAY 21	0.570B ON NOV 11	72 100	1986
1987	24.5 AT 12:48 MST ON MAY 01	20.8 ON MAY 01	0.255B ON NOV 30 *	47 300	1987
1988	11.6 AT 01:35 MST ON MAY 13	10.6 ON MAY 13	0.311B ON JAN 05	41 200	1988
1989	25.6 AT 04:23 MST ON MAY 08	21.5 ON MAY 08	0.370B ON FEB 04	82 800	1989
1990	20.8 AT 13:46 MST ON JUN 04	19.6 ON JUN 04	0.643 ON MAR 14	112 000	1990
				68 900	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

JORDAN RIVER ABOVE KIRKUP CREEK - STATION NO. 08ND014

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	---	---	---	1963
1964	149 AT 07:15 PST ON JUL 09	112 ON JUL 09	1.78 B ON DEC 25	626 000	1964
1965	94.6 AT 01:00 PST ON JUN 12	77.6 ON MAY 29	1.59 B ON JAN 30	465 000	1965
1966	84.4 AT 05:00 PST ON JUN 03	79.3 ON JUN 03	1.64 B ON MAR 01	[illegible]	1966
1967	159 AT 07:00 PST ON JUN 03	[illegible] ON JUN 03	1.98 ON MAR 13	605 000	1967
1968	182 AT 11:40 PST ON JUN 02	147 ON JUN 02	[illegible] B ON DEC 31	603 000	1968
1969	90.0 AT 21:54 PST ON JUN 05	79.0 ON JUN 09	1.30 B ON JAN 01	513 000	1969
1970	103 AT 21:45 PST ON JUN 03	80.6 ON JUN 04	1.47 B ON FEB 09	416 000	1970
1971	97.1 AT 09:41 PST ON JUN 23	[illegible] ON JUN 23	2.10 B ON MAR 25	[illegible]	1971
1972	135 AT 19:30 PST ON MAY 31	[illegible] ON MAY 31	1.63 ON FEB 21	[illegible]	1972
1973	108 AT 02:00 PST ON JUN 24	[illegible] ON JUN 24	1.54 B ON FEB 08	[illegible]	1973
1974	168 AT 00:55 PST ON JUN 17	137 ON JUN 17	1.76 B ON DEC 28	633 000	1974
1975	189 AT 04:16 PST ON JUN 15	[illegible] ON JUN 15	0.692B ON FEB 05 *	563 000	1975
1976	117 E AT 20:31 PST ON JUN 19	[illegible] ON JUN 08	1.61 B ON MAR 03	704 000	1976
1977	117 AT 19:47 PST ON JUN 07	[illegible] ON JUN 07	1.80 ON MAR 03	463 000	1977
1978	98.0 AT 22:20 PST ON JUN 05	[illegible] ON JUN 05	1.44 B ON JAN 31	[illegible]	1978
1979	137 AT 22:30 PST ON MAY 26	88.9 ON JUN 03	0.963B ON FEB 26	414 000	1979
1980	102 AT 04:48 PST ON APR 29	80.7 ON APR 29	1.38 B ON JAN 28	522 000	1980
1981	143 AT 23:59 PST ON MAY 25	[illegible] ON MAY 25	2.10 B ON FEB 10	564 000	1981
1982	130 AT 21:34 PST ON JUN 14	[illegible] ON JUN 14	1.63 B ON FEB 10	561 000	1982
1983	378 AT 01:28 PST ON JUL 12 *	[illegible] ON JUL 12 *	1.98 ON FEB 11	567 000	1983
1984	105 AT 14:46 PST ON JUN 29	89.8 ON JUN 29	2.01 B ON DEC 19	512 000	1984
1985	---	113 A ON MAY 24	1.13 B ON JAN 31	486 000	1985
1986	157 AT 21:38 PST ON MAY 29	[illegible] ON MAY 29	1.67 ON JAN 19	488 000	1986
1987	169 AT 06:25 PST ON MAY 12	[illegible] ON MAY 12	1.52 B ON MAR 01	459 000	1987
1988	129 AT 16:25 PST ON MAY 13	111 ON MAY 13	0.900B ON FEB 02	545 000	1988
				545 000	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX)

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

JORDAN RIVER NEAR REVELSTOKE - STATION NO. 08ND004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1946	---	---	---	---	---	---	---	18.0	6.34	4.08	2.90	2.67	---	1946
1947	---	---	4.01	19.0	58.2	---	---	---	---	---	---	---	---	1947
1956	---	---	---	---	---	---	---	---	---	---	6.13	3.52	---	1956
1957	2.57	2.37	2.01	7.88	---	---	---	17.6	5.64	3.76	4.69	4.60	---	1957
MEAN	2.57	2.37	3.01	13.4	58.2	---	---	17.8	5.99	3.92	4.57	3.60	---	MEAN

LOCATION - LAT 51 03 52 N
LONG 118 14 15 W

DRAINAGE AREA, 350 km^2
NATURAL FLOW

JORDAN RIVER NEAR REVELSTOKE - STATION NO. 08ND004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1946	---	---	---	---	1946
1947	---	---	---	---	1947
1956	---	---	---	---	1956
1957	---	---	1.87B ON MAR 18 *	---	1957
				---	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

JOSEPH CREEK ABOVE LAGOON OUTFALL - STATION NO. 08NG074

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	---	---	1.50	0.984	0.308	0.074	0.157	[illegible]	0.048	0.027	---	1971
1972	0.025	0.041	0.426	0.400	[illegible]	1.63	0.633	0.401	0.462	0.250	0.355	0.117	0.558	1972
1973	0.030	0.073	0.382	0.212	0.861	0.415	0.106	0.080	0.126	[illegible]	0.177	0.179	0.406	1973
1974	0.320	0.224	0.470	0.663	1.74	2.47	0.645	0.256	0.252	0.259	0.363	0.333	0.672	1974
1975	0.242	0.195	0.314	0.382	0.541	0.846	0.306	0.230	0.767	0.434	0.290	0.354	0.417	1975
1976	0.247	0.265	0.561	0.483	1.37	0.994	0.308	[illegible]	0.240	0.176	0.138	0.119	0.435	1976
1977	0.068	0.107	0.120	0.111	0.131	0.141	0.031	0.026	0.164	0.163	0.174	0.107	0.114	1977
1978	0.084	0.151	0.318	0.225	1.14	1.09	0.250	0.116	0.191	0.202	0.099	0.044	0.326	1978
MEAN	0.145	0.151	0.369	0.354	1.06	1.12	0.323	0.188	0.295	0.256	0.208	0.160	0.390	MEAN

LOCATION - LAT 49 32 29 N
LONG 115 44 32 W

REGULATED

JOSEPH CREEK ABOVE LAGOON OUTFALL - STATION NO. 08NG074

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	---	---	---	1971
1972	---	3.37 ON JUN 01	0.016 ON FEB 04	17 700	1972
1973	---	1.35 ON MAY 19	0.016 ON FEB 11	6 510	1973
1974	---	4.19 ON JUN 16 *	0.023 ON JAN 11	21 200	1974
1975	---	1.77 ON JUN 06	0.076 ON AUG 15	13 100	1975
1976	---	2.21 ON MAY 13	0.091 ON DEC 31	13 800	1976
1977	---	0.264 ON MAY 24	0.022E ON AUG 14	3 600	1977
1978	---	2.55 ON MAY 24	0.012E ON DEC 20 *	10 300	1978
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		12 300	MEAN

JOSEPH CREEK AT CRANBROOK - STATION NO. 08NG015

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1920	---	---	---	---	0.832	0.632	0.139	0.023	0.027	---	---	---	---	1920
1921	---	---	---	0.453	1.76	0.677	0.102	0.042	0.044	---	---	---	---	1921
1922	---	---	---	0.069	0.662	0.470	0.107	0.021	0.011	---	---	---	---	1922
1923	---	---	---	0.480	1.76	1.29	0.358	0.112	0.044	---	---	---	---	1923
1924	---	---	---	---	0.814	---	---	---	---	---	---	---	---	1924
1925	---	---	---	1.31	1.72	0.662	0.156	0.054	0.066	---	---	---	---	1925
1927	---	---	---	0.829	1.16	0.814	0.244	0.166	0.451	---	---	---	---	1927
MEAN	---	---	---	0.636	1.29	0.758	0.184	0.073	0.111	---	---	---	---	MEAN

LOCATION - LAT 49 30 40 N
LONG 115 45 35 W REGULATED

JOSEPH CREEK AT CRANBROOK - STATION NO. 08NG015

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1920	---	1.25 ON MAY 17	0.007 ON AUG 06	---	1920
1921	---	2.58 ON MAY 20	0.028 ON AUG 21	---	1921
1922	---	1.84 ON MAY 18	0 ON AUG 27 *	---	1922
1923	---	2.44 ON JUN 10	0.028 ON SEP 16	---	1923
1924	---	1.25 ON MAY 14	---	---	1924
1925	---	2.66 ON MAY 22	0.028 ON AUG 25	---	1925
1927	---	4.73 ON APR 28 *	0.023 ON APR 09	---	1927
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

JOSEPH CREEK IN LOT 5450 - STATION NO. 08NG070

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	---	---	---	---	---	---	0.300	0.243	0.245	---	---	1968
1970	0.224	0.187	0.174	0.186	0.732	0.590	0.318	0.228	0.252	0.246	0.229	0.224	0.300	1970
1973	---	---	---	---	---	0.604	0.355	0.269	0.267	0.255	0.218	0.227	---	1973
1974	0.240	0.220	0.170	0.303	1.44	---	---	---	---	---	---	---	---	1974
MEAN	0.232	0.204	0.172	0.245	1.09	0.597	0.337	0.249	0.273	0.248	0.231	0.226	0.300	MEAN

LOCATION - LAT 49 28 08 N DRAINAGE AREA, 58.5 km^2
LONG 115 42 19 W REGULATED

JOSEPH CREEK IN LOT 5450 - STATION NO. 08NG070

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	---	---	---	1968
1970	---	1.53 ON MAY 26	0.159E ON MAR 05 *	9 460	1970
1973	---	---	---	---	1973
1974	---	2.70 ON MAY 27 *	---	---	1974
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		9 460	MEAN

JOSEPH CREEK IN LOT SL-1A - STATION NO. 08NG068

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	---	0.077	0.756	0.812	0.240	0.150	0.120	0.122	0.114	---	---	1968
1974	---	---	---	---	---	---	0.513	0.239	0.133	0.099	0.091	0.083	---	1974
1975	0.069	0.064	0.068	0.071	0.648	1.42	0.316	0.185	0.134	0.118	0.125	0.269	0.291	1975
1976	0.127	0.104	0.089	0.202	1.90	0.939	0.393	0.204	0.134	0.111	0.098	0.085	0.367	1976
MEAN	0.098	0.084	0.079	0.117	1.10	1.06	0.366	0.195	0.130	0.113	0.107	0.146	0.329	MEAN

LOCATION - LAT 49 27 04 N DRAINAGE AREA, 54.1 km²
LONG 115 41 16 W NATURAL FLOW

JOSEPH CREEK IN LOT SL-1A - STATION NO. 08NG068

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1968	---	1.70 ON MAY 23	---	---	1968
1974	---	---	---	---	1974
1975	---	2.53 ON JUN 05	0.059B ON JAN 12 *	9 180	1975
1976	---	3.51 ON MAY 12 *	0.071B ON DEC 31	11 600	1976
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		10 400	MEAN

JOSEPH CREEK NEAR CRANBROOK - STATION NO. 08NG014

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1920	---	---	---	---	1.17	0.875	0.314	0.165	0.165	---	---	---	---	1920
1921	---	---	---	0.667	[illegible]	1.03	0.361	0.200	0.211	---	---	---	---	1921
1922	---	---	---	0.230	[illegible]	0.653	0.265	0.169	0.150	---	---	---	---	1922
1923	---	---	---	0.442	[illegible]	1.21	0.473	[illegible]	0.185	---	---	---	---	1923
1924	---	---	---	0.236	0.669	0.290	0.165	0.162	0.120	---	---	---	---	1924
1925	---	---	---	---	1.83	0.760	0.353	0.158	0.188	---	---	---	---	1925
1926	---	---	---	0.321	0.382	0.247	0.134	0.116	0.260	---	---	---	---	1926
1927	---	---	---	0.794	1.67	0.935	0.336	0.252	0.396	---	---	---	---	1927
MEAN	---	---	---	0.448	1.38	0.755	0.300	0.182	0.203	---	---	---	---	MEAN

LOCATION - LAT 49 29 10 N
LONG 115 42 40 W REGULATED

JOSEPH CREEK NEAR CRANBROOK - STATION NO. 08NG014

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1920	---	1.83 ON MAY 17	0.150 ON SEP 07	---	1920
1921	---	3.51 ON MAY 20	0.136 ON AUG 31	---	1921
1922	---	2.53 ON MAY 17	0.136 ON SEP 17	---	1922
1923	---	2.21 ON MAY 23	0.150 ON SEP 03	---	1923
1924	---	1.13 ON MAY 13	0.108 ON AUG 29	---	1924
1925	---	2.66 ON MAY 21	0.116 ON AUG 26	---	1925
1926	---	0.580 ON MAY 01	0.061 ON AUG 04 *	---	1926
1927	---	4.39 ON APR 28 *	0.113 ON APR 01	---	1927
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

JULY CREEK NEAR GRAND FORKS - STATION NO. 08NN018

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	---	---	---	0.224	0.072	0.033	0.022	---	---	---	---	1965
1966	---	---	---	0.172	0.163	0.085	0.046	0.018	0.011	---	---	---	---	1966
1967	---	---	---	---	[illegible]	0.235	0.063	0.022	0.011	---	---	---	---	1967
1968	---	---	---	0.436	0.603	0.223	0.069	0.034	0.027	---	---	---	---	1968
1969	---	---	---	2.09	1.53	0.256	0.102	0.027	0.015	---	---	---	---	1969
1970	---	---	---	0.148	0.380	0.141	0.045	0.017	0.010	---	---	---	---	1970
1971	---	---	---	0.503	1.04	0.320	0.172	0.049	---	---	---	---	---	1971
1972	---	---	---	0.528	[illegible]	0.384	0.195	0.065	0.032	---	---	---	---	1972
1973	---	---	---	0.232	0.319	0.108	0.035	0.013	0.009	---	---	---	---	1973
1974	---	---	---	2.61	1.66	0.341	0.103	0.047	0.019	---	---	---	---	1974
MEAN	---	---	---	0.840	0.821	0.232	0.090	0.035	0.017	---	---	---	---	MEAN

LOCATION - LAT 49 00 52 N DRAINAGE AREA, 45.6 km²
LONG 118 32 28 W REGULATED

KOOTENAY RIVER AT CANAL FLATS - STATION NO. 08NF002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1939	---	365 ON JUL 02	---	---	1939
1940	---	513 ON MAY 26	---	---	1940
1941	---	256 ON JUN 03	---	---	1941
1942	---	490 ON MAY 26	---	---	1942
1943	---	501 ON JUL 04	---	---	1943
1944	---	300 ON JUN 13	---	---	1944
1945	---	354 ON JUN 22	10.0 B ON DEC 15	1 980 000	1945
1946	---	646 ON MAY 29	11.0 B ON JAN 08	2 750 000	1946
1947	---	496 ON MAY 10	14.7 B ON FEB 21	3 030 000	1947
1948	---	841 ON MAY 24	13.8 B ON MAR 05	3 190 000	1948
1949	---	275 ON JUN 07	16.5 B ON DEC 31	1 850 000	1949
1950	---	665 ON JUN 22	---	---	1950
1963	---	---	---	---	1963
1964	---	487 ON JUN 13	11.6 ON MAR 24	2 980 000	1964
1965	---	538 ON JUN 13	18.3 ON DEC 15	3 100 000	1965
1966	---	617 ON MAY 29	15.2 ON DEC 24	3 150 000	1966
1967	---	688 ON JUN 10	13.0 B ON DEC 16	3 200 000	1967
1968	---	566 ON JUN 03	8.76B ON JAN 30	2 650 000	1968
1969	---	578 ON JUN 04	15.2 B ON DEC 28	2 990 000	1969
1970	---	382 ON JUN 05	15.0 B ON JAN 09	1 940 000	1970
1971	---	467 ON JUN 06	12.3 B ON FEB 07	2 990 000	1971
1972	---	801E ON JUN 01	13.0 B ON JAN 25	3 570 000	1972
1973	---	561 ON JUN 24	13.0 B ON JAN 10	2 540 000	1973
1974	---	833 ON JUN 19	12.5 B ON JAN 01	3 310 000	1974
1975	---	382E ON JUL 05	13.5 B ON JAN 12	2 460 000	1975
1976	---	487 ON JUL 01	13.5 B ON MAR 03	3 420 000	1976
1977	---	564 ON JUN 08	10.8 B ON NOV 22	2 190 000	1977
1978	---	544A ON JUN 09	13.6 B ON MAR 03	2 920 000	1978
1979	445 AT 13:40 MST ON MAY 27	437 ON MAY 27	12.3 B ON NOV 30	2 030 000	1979
1980	---	413E ON MAY 27	9.26B ON JAN 09	2 930 000	1980
1981	697 AT 19:10 MST ON MAY 26	640 ON MAY 26	14.0 B ON FEB 11	3 320 000	1981
1982	555 AT 10:25 MST ON JUN 16	532 ON JUN 16	14.6 B ON JAN 06	2 850 000	1982
1983	478 AT 12:45 MST ON MAY 30	454 ON MAY 30	14.4 B ON DEC 24	2 510 000	1983
1984	625 AT 08:37 MST ON JUN 30	577 ON JUN 30	14.9 B ON DEC 31	2 470 000	1984
1985	511 AT 05:26 MST ON MAY 26	475 ON MAY 26	8.24 ON MAR 30 *	2 460 000	1985
1986	876 AT 08:53 MST ON MAY 29 *	844 ON MAY 29 *	12.6 B ON FEB 15	3 190 000	1986
1987	429 AT 02:45 MST ON MAY 13	397 ON MAY 13	10.8 B ON DEC 27	2 290 000	1987
1988	549 AT 13:16 MST ON JUN 08	508 ON JUN 08	10.2 B ON JAN 06	2 320 000	1988
1989	565 AT 13:20 MST ON JUN 07	543 ON JUN 16	10.5 ON APR 10	2 730 000	1989
1990	683 AT 03:20 MST ON MAY 31	627 ON MAY 31	13.7 B ON DEC 28	3 360 000	1990
				2 770 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

KOOTENAY RIVER AT FORT STEELE - STATION NO. 08NG065

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	---	---	---	---	---	---	119	88.3	65.9	49.2	---	1963
1964	42.1	35.8	36.1	57.1	263	779	425	184	136	132	75.2	55.1	185	1964
1965	52.3	39.0	45.2	116	320	674	388	199	135	123	90.1	63.7	186	1965
1966	59.8	38.7	33.1	100	[illegible]	723	450	165	105	74.0	58.8	46.6	198	1966
1967	42.4	39.3	38.1	45.7	[illegible]	1 030	533	166	105	79.5	62.5	42.8	209	1967
1968	38.4	34.8	41.2	61.9	[illegible]	665	423	174	121	90.0	64.0	43.8	170	1968
1969	37.5	36.8	37.2	130	[illegible]	770	407	149	93.9	82.9	57.2	40.4	198	1969
1970	34.7	34.7	34.1	35.6	[illegible]	553	229	114	85.8	69.0	45.1	35.8	125	1970
1971	35.1	38.0	34.0	71.3	[illegible]	730	451	205	108	75.4	55.0	38.4	167	1971
1972	31.5	30.6	46.6	57.5	[illegible]	1 100	545	269	118	96.1	64.1	43.1	215	1972
1973	35.6	34.6	40.8	55.7	[illegible]	553	375	145	96.8	78.7	65.0	50.6	150	1973
1974	46.8	43.7	42.1	50.2	[illegible]	1 070	577	225	113	66.4	50.8	40.8	223	1974
1975	34.2	36.6	37.8	46.4	210	586	430	200	143	91.7	76.4	70.1	164	1975
1976	51.7	44.9	41.5	89.5	[illegible]	524	544	372	190	97.2	57.8	46.6	210	1976
1977	35.8	36.1	33.9	64.7	[illegible]	417	180	155	130	75.4	51.0	43.1	131	1977
1978	39.8	33.4	38.1	77.8	[illegible]	666	447	164	148	102	62.1	47.4	178	1978
1979	31.5	34.9	36.3	41.8	264	448	236	112	79.0	51.3	35.1	35.2	117	1979
1980	26.1	30.0	31.0	132	648	553	239	137	100	89.3	59.3	58.8	176	1980
1981	59.0	47.7	48.6	78.5	[illegible]	554	604	269	120	90.4	63.8	45.8	208	1981
1982	41.3	43.7	41.0	48.9	[illegible]	783	407	194	150	114	72.5	51.7	187	1982
1983	46.1	40.9	42.9	84.9	[illegible]	531	400	180	109	68.1	78.8	40.7	164	1983
1984	48.1	38.2	38.1	70.4	142	627	372	162	111	76.4	52.8	38.1	148	1984
1985	33.6	28.1	30.7	71.1	408	457	211	122	124	89.1	61.1	43.8	140	1985
1986	38.5	38.1	63.1	110	[illegible]	726	359	174	99.4	95.0	74.8	52.7	185	1986
1987	41.5	38.4	45.1	106	[illegible]	390	216	128	80.7	53.5	42.1	30.0	142	1987
1988	27.9	29.0	31.9	101	340	507	253	125	83.2	95.4	74.6	45.1	143	1988
1989	37.2	29.8	33.2	81.9	327	590	287	165	146	81.6	96.8	64.2	164	1989
1990	51.4	36.7	38.8	129	313	781	500	187	96.7	83.4	84.9	57.4	197	1990
MEAN	40.7	36.8	39.3	79.1	358	660	387	180	116	86.0	64.2	47.2	175	MEAN

LOCATION - LAT 49 38 43 N DRAINAGE AREA, 11 400 km²
LONG 115 38 04 W NATURAL FLOW

KOOTENAY RIVER AT FORT STEELE - STATION NO. 08NG065

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1963	---	---	---	---	1963
1964	---	985 ON JUN 15	27.2 ON MAR 25	5 850 000	1964
1965	---	985 ON JUN 13	27.2 ON FEB 24	5 870 000	1965
1966	---	1 180 ON JUN 01	23.1 ON MAR 05	6 240 000	1966
1967	1 270 AT 00:40 PST ON JUN 23	1 250 ON JUN 23	28.3B ON DEC 15	6 580 000	1967
1968	1 160 AT 00:36 PST ON JUN 04	1 060 ON JUN 04	27.2B ON FEB 14	5 390 000	1968
1969	1 100 AT 14:49 PST ON JUN 06	1 100 ON JUN 06	28.6B ON JAN 01	6 240 000	1969
1970	846 AT 22:57 PST ON JUN 05	920 ON JUN 06	25.8B ON DEC 24	3 930 000	1970
1971	1 010 AT 08:20 MST ON JUN 24	988 ON JUN 24	27.2B ON FEB 07	6 210 000	1971
1972	1 510 AT 03:00 MST ON JUN 03	1 490A ON JUN 03	25.8B ON JAN 25	7 430 000	1972
1973	861 AT 05:00 MST ON JUN 25	833 ON JUN 25	25.5B ON JAN 10	4 720 000	1973
1974	1 830 AT 06:20 MST ON JUN 19 *	1 820 ON JUN 19 *	29.2B ON JAN 01	7 030 000	1974
1975	725 AT 15:15 MST ON JUL 06	714 ON JUL 06	22.7B ON JAN 12	5 170 000	1975
1976	869 AT 19:50 MST ON JUL 01	824 ON JUL 01	14.3 ON MAR 03	6 650 000	1976
1977	864 AT 00:31 MST ON JUN 09	850 ON JUN 09	26.8B ON JAN 04	3 820 000	1977
1978	1 040 AT 23:20 MST ON JUN 06	1 010 ON JUN 07	28.1 ON MAR 04	5 810 000	1978
1979	---	793E ON MAY 27	24.2B ON DEC 17	3 700 000	1979
1980	835 AT 02:15 MST ON MAY 23	811 ON MAY 07	19.4A ON JAN 08 *	5 550 000	1980
1981	1 130 AT 08:45 MST ON MAY 27	1 110 ON MAY 27	32.6 ON FEB 11	6 550 000	1981
1982	1 120 AT 14:30 MST ON JUN 16	1 110 ON JUN 16	31.0 ON FEB 07	5 900 000	1982
1983	1 050 AT 22:15 MST ON MAY 30	1 010 ON MAY 30	31.7B ON DEC 24	5 170 000	1983
1984	1 050 AT 13:50 MST ON JUN 30	1 010 ON JUN 30	29.7 ON DEC 31	4 680 000	1984
1985	983 AT 16:16 MST ON MAY 25	964 ON MAY 25	21.2 ON FEB 02	4 430 000	1985
1986	1 490 AT 19:59 MST ON JUN 01	1 460 ON JUN 01	25.9B ON FEB 15	5 850 000	1986
1987	978 AT 14:08 MST ON MAY 13	934 ON MAY 13	20.1 ON DEC 19	4 480 000	1987
1988	938 AT 23:26 MST ON JUN 08	867 ON JUN 08	20.6 ON JAN 07	4 520 000	1988
1989	905 AT 17:59 MST ON JUN 07	884 ON JUN 07	21.4 ON FEB 04	5 160 000	1989
1990	1 060 AT 19:19 MST ON JUN 25	1 050 ON JUN 25	26.3 ON FEB 16	6 220 000	1990
				5 520 000	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

KOOTENAY RIVER AT GLADE - STATION NO. 08NJ001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	---	---	---	---	---	---	2 020	1 060	688	452	365	279	---	1913
1914	273	224	246	643	1 810	2 510	2 130	978	516	464	545	338	894	1914
1915	221	184	199	590	1 310	1 380	1 350	981	560	340	326	258	645	1915
1916	190	188	325	700	1 570	2 690	3 450	1 420	728	392	280	210	1 030	1916
1917	171	166	151	219	1 140	2 760	2 460	1 040	532	366	248	234	796	1917
1918	348	248	235	567	1 560	2 490	1 880	909	545	425	316	251	822	1918
1919	231	265	216	533	1 690	2 600	1 910	932	527	281	205	171	617	1919
1920	169	164	161	236	1 000	1 930	2 570	1 220	634	681	412	311	794	1920
1921	253	252	324	560	1 660	3 360	2 030	911	449	332	344	259	900	1921
1922	218	176	160	242	1 070	2 810	1 520	738	506	331	265	182	686	1922
1923	224	178	160	367	1 390	2 720	1 620	803	484	281	161	172	745	1923
1924	151	208	221	242	1 440	1 640	1 040	672	485	332	336	299	590	1924
1925	284	263	333	1 080	2 330	2 800	1 850	840	485	302	210	187	824	1925
1926	163	159	167	419	1 230	952	853	511	479	575	364	277	640	1926
1927	275	220	224	345	1 340	3 020	2 300	1 070	969	611	771	348	1 000	1927
1928	368	304	317	548	2 250	2 610	1 970	886	464	387	324	227	906	1928
1929	182	155	173	237	1 010	2 360	1 310	680	412	265	190	167	597	1929
1930	151	151	176	538	1 360	1 990	1 510	792	455	296	224	180	654	1930
1931	153	162	160	281	1 300	1 770	1 190	630	445	234	181	193	567	1931
1932	247	180	324	663	2 090	3 070	1 930	865	512	329	243	166	884	1932
1933	287	210	216	413	1 640	3 620	2 880	1 240	664	546	723	604	1 090	1933
1934	678	493	410	1 400	3 040	2 800	1 380	750	458	284	429	347	1 040	1934
1935	280	338	291	399	1 480	2 950	2 160	1 090	537	319	229	192	858	1935
1936	164	160	150	570	2 170	2 260	1 150	614	369	244	377	150	688	1936
1937	119	128	174	249	1 110	2 180	1 500	710	384	269	499	364	642	1937
1938	321	258	271	672	1 580	3 100	1 520	722	422	298	258	265	853	1938
1939	272	241	225	609	1 940	1 940	1 570	550	359	377	435	404	747	1939
1940	286	297	385	688	1 620	2 020	963	475	419	396	294	261	676	1940
1941	243	259	365	667	1 310	1 560	740	481	670	668	451	662	677	1941
1942	355	387	413	580	1 540	2 650	2 080	790	329	366	330	316	848	1942
1943	295	288	268	1 160	1 610	2 480	2 330	850	303	295	300	301	878	1943
1944	299	248	235	322	908	---	---	---	---	---	---	---	---	1944
MEAN	255	235	250	542	1 580	2 460	1 800	845	510	388	347	295	795	MEAN

LOCATION - LAT 49 24 20 N
LONG 117 32 15 W
DRAINAGE AREA, 49 200 km²
REGULATED SINCE 1939

MASHITER CREEK NEAR SQUAMISH - STATION NO. 08GA057

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	2.10	1.73	1.18	3.22	6.45	2.80	1.14	1.08	5.26	2.85	3.30	---	1967
1968	4.46	2.94	3.63	1.65	3.59	4.70	3.68	1.50	1.61	3.90	---	---	---	1968
1970	1.89	1.88	1.50	2.42	3.42	4.49	1.56	0.749	1.28	1.43	2.54	1.84	2.09	1970
1971	2.47	2.94	1.60	[illegible]	[illegible]	[illegible]	3.76	1.66	[illegible]	2.24	2.67	[illegible]	[illegible]	1971
1972	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1972
1973	2.50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.577	0.581	[illegible]	[illegible]	[illegible]	[illegible]	1973
1974	2.74	2.36	3.52	2.44	4.05	7.39	6.05	3.02	1.45	1.16	3.36	3.32	3.41	1974
1975	1.36	1.00	2.12	1.51	3.94	4.96	3.76	2.19	1.10	4.97	---	---	---	1975
1978	---	---	---	---	---	---	---	---	---	1.32	2.04	1.23	---	1978
1979	0.774	1.61	2.37	1.51	3.37	3.61	1.67	0.742	1.64	2.31	1.44	5.31	2.24	1979
1980	1.44	---	---	---	3.10	3.44	2.31	1.00	---	---	4.51	6.44	---	1980
1981	---	---	---	---	---	---	---	1.23	---	---	---	---	---	1981
MEAN	2.09	2.01	2.60	1.84	3.64	4.85	3.21	1.39	1.39	2.68	2.72	3.48	2.60	MEAN

LOCATION - LAT 49 44 26 N DRAINAGE AREA, 38.9 km²
LONG 123 06 18 W NATURAL FLOW

MASHITER CREEK NEAR SQUAMISH - STATION NO. 08GA057

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1967	31.7 AT 06:00 PST ON OCT 31	16.1 ON OCT 31	0.560 ON SEP 28	---	1967
1968	28.1 AT 13:50 PST ON JAN 25	17.3 ON JAN 20	1.31 ON APR 22	---	1968
1970	10.2 AT 19:47 PST ON JUN 02	8.13 ON APR 09	0.402E ON OCT 17	65 800	1970
1971	17.8 AT 18:23 PST ON FEB 14	[illegible] ON FEB 14	[illegible] ON JAN 13	82 700	1971
1972	26.7 AT 06:47 PST ON DEC [illegible]	[illegible] ON MAR 18	0.580 ON APR 23	90 500	1972
1973	38.5 AT 02:28 PST ON OCT [illegible]	18.5 B ON JAN 15	0.589 ON SEP 16 *	74 600	1973
1974	50.7E AT 19:30 PST ON NOV 24	25.7 E ON NOV 24	0.708B ON JAN 11	108 000	1974
1975	121 AT 18:26 PST ON NOV 03 *	44.2 ON NOV 03	---	---	1975
1978	31.1 AT 16:11 PST ON NOV 07	12.1 ON NOV 07	---	---	1978
1979	27.6 AT 02:45 PST ON DEC 18	17.8 ON DEC 18	0.589B ON FEB 03	70 500	1979
1980	99.4 AT 22:14 PST ON DEC 26	53.5 ON DEC 26 *	---	---	1980
1981	---	---	---	---	1981
				82 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

MATHER CREEK ABOVE WAIT CREEK - STATION NO. 08NG036

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1929	---	---	---	---	---	3.47	0.729	0.373	0.294	---	---	---	---	1929
MEAN	---	---	---	---	---	3.47	0.729	0.373	0.294	---	---	---	---	MEAN

LOCATION - LAT 49 40 32 N
LONG 115 47 22 W REGULATED

MATHER CREEK ABOVE WAIT CREEK - STATION NO. 08NG036

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1929	---	---	---	---	1929
				---	MEAN

MATHER CREEK BELOW HOULE CREEK - STATION NO. 08NG076

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	---	---	---	---	---	0.937	0.634	0.735	0.508	0.398	---	1972
1973	0.370	0.318	0.319	1.15	4.43	4.14	1.25	0.528	0.451	0.453	0.503	0.470	1.21	1973
1974	0.414	0.378	0.360	2.93	5.85	8.62	2.67	0.950	0.589	0.468	0.443	0.336	2.00	1974
1975	0.319	0.302	0.283	0.585	3.62	4.47	1.60	0.929	0.730	0.650	0.622	0.583	1.24	1975
1976	0.427	0.343	0.317	1.46	7.68	4.82	2.57	1.34	0.736	0.557	0.417	0.282	1.75	1976
1977	0.240	0.218	0.202	0.497	1.36	1.55	0.847	0.388	0.456	0.397	0.335	0.266	0.524	1977
1978	0.303	0.176	0.318	1.60	4.18	5.52	2.64	0.631	0.645	0.520	0.412	0.269	1.45	1978
1979	0.177	0.225	0.361	0.601	3.04	2.47	0.851	0.374	0.258	0.269	0.161	0.156	0.748	1979
1980	0.139	0.181	0.218	2.08	5.74	3.48	1.11	0.587	0.463	0.417	0.402	0.473	1.28	1980
1981	0.478	0.332	0.506	1.63	5.58	4.34	2.45	1.09	0.581	0.537	0.433	0.341	1.51	1981
1982	0.233	0.250	0.239	0.587	4.74	6.26	2.40	0.880	0.761	0.759	0.364	0.275	1.48	1982
1983	0.350	0.523	0.620	2.13	5.05	4.23	1.61	0.808	0.541	0.428	0.514	0.275	1.44	1983
1984	0.318	0.253	0.339	0.804	1.56	4.81	1.50	0.667	0.421	0.348	0.370	0.295	1.01	1984
1985	0.227	0.201	0.244	0.999	3.04	2.56	0.741	0.443	0.585	0.528	0.364	0.285	0.854	1985
1986	0.351	0.331	0.469	1.71	3.26	3.74	1.23	0.540	0.497	0.534	0.419	0.380	1.07	1986
1987	0.316	0.301	0.468	1.85	4.49	1.94	0.819	0.506	0.326	0.285	0.267	0.218	1.01	1987
1988	0.266	0.181	0.155	1.14	2.50	2.48	0.776	0.435	0.347	0.355	0.326	0.247	0.762	1988
1989	0.236	0.205	0.162	1.01	3.16	3.62	0.985	0.724	0.616	0.508	0.434	0.312	0.999	1989
1990	0.311	0.272	0.286	1.72	3.54	8.16	2.16	0.744	0.435	0.446	0.502	0.362	1.58	1990
MEAN	0.286	0.272	0.328	1.34	4.08	4.27	1.58	0.721	0.532	0.487	0.410	0.325	1.22	MEAN

LOCATION - LAT 49 43 30 N DRAINAGE AREA, 136 km²
LONG 115 55 30 W NATURAL FLOW

MATHER CREEK BELOW HOULE CREEK - STATION NO. 08NG076

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1972	---	---	---	---	1972
1973	7.70 AT 16:15 MST ON MAY 25	7.36 ON MAY 25	0.278 ON MAR 05	38 300	1973
1974	13.7 AT 00:26 MST ON JUN 21 *	12.8 ON JUN 17 *	0.256B ON JAN 03	63 100	1974
1975	6.29 AT 02:15 MST ON MAY 17	6.09 ON MAY 16	0.269B ON MAR 27	39 300	1975
1976	12.1 AT 07:30 MST ON MAY 31	11.5 ON MAY 31	0.227 ON NOV 27	55 400	1976
1977	3.26 AT 07:46 MST ON JUN 08	2.59 ON JUN 08	0.173 ON FEB 19	16 500	1977
1978	10.6 AT 02:00 MST ON JUN 06	9.71 ON JUN 09	0.161E ON FEB 13	45 600	1978
1979	6.97 AT 01:55 MST ON MAY 27	6.51 ON MAY 27	0.105B ON NOV 30	23 600	1979
1980	9.00 AT 01:25 MST ON MAY 03	8.56 ON MAY 03	0.091E ON JAN 09 *	40 400	1980
1981	10.5 AT 00:10 MST ON MAY 26	9.49 ON MAY 26	0.212E ON FEB 10	47 800	1981
1982	9.18 AT 23:45 MST ON JUN 15	8.72 ON JUN 16	0.165B ON FEB 05	46 700	1982
1983	11.2 AT 00:50 MST ON MAY 30	10.3 ON MAY 30	0.197B ON DEC 24	45 400	1983
1984	8.23 AT 04:15 MST ON JUN 16	7.92 ON JUN 16	0.193B ON JAN 01	32 000	1984
1985	5.57 AT 01:03 MST ON MAY 25	5.25 ON MAY 24	0.170B ON FEB 03	26 900	1985
1986	12.6 AT 01:44 MST ON MAY 31	11.1 ON MAY 31	0.183E ON FEB 08	33 700	1986
1987	9.49 AT 10:06 MST ON MAY 01	8.45 ON MAY 01	0.170B ON DEC 31	31 900	1987
1988	4.65 AT 03:44 MST ON JUN 08	4.38 ON JUN 08	0.155B ON FEB 03	24 100	1988
1989	6.94 AT 23:49 MST ON JUN 06	6.39 ON JUN 07	0.104 ON MAR 25	31 500	1989
1990	12.2 AT 06:35 MST ON JUN 02	12.0 ON JUN 02	0.196B ON DEC 22	49 700	1990
MEAN				38 400	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MATHER CREEK BELOW LOST DOG CANYON - STATION NO. 08NG040

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1930	---	---	---	2.39	2.18	3.99	1.62	0.681	0.523	---	---	---	---	1930
1931	---	---	---	---	2.13	1.74	0.731	0.314	0.316	---	---	---	---	1931
1932	---	---	---	---	6.01	4.97	1.40	0.639	0.485	---	---	---	---	1932
1933	---	---	---	---	5.93	5.65	1.84	0.633	0.971	1.63	---	---	---	1933
1934	---	---	---	---	---	3.60	1.09	0.534	0.448	0.469	---	---	---	1934
1935	---	---	---	---	---	5.04	1.50	0.734	0.532	0.496	---	---	---	1935
1936	---	---	---	---	---	---	---	---	0.368	---	---	---	---	1936
1937	---	---	---	1.22	4.18	3.33	1.24	0.724	0.477	0.612	---	---	---	1937
1938	---	---	---	6.64	9.62	6.52	1.82	0.715	0.498	0.579	---	---	---	1938
1939	---	---	---	3.06	3.62	3.61	1.52	0.617	0.473	0.512	---	---	---	1939
1940	---	---	---	2.88	4.56	2.33	0.806	0.504	0.553	0.551	---	---	---	1940
1941	---	---	---	1.94	2.40	1.87	0.779	0.593	1.12	---	---	---	---	1941
1942	---	---	---	---	---	6.79	3.40	1.59	0.951	---	---	---	---	1942
1943	---	---	---	---	3.58	4.11	2.49	0.760	0.445	---	---	---	---	1943
1944	---	---	---	---	2.05	2.54	0.871	0.433	0.283	---	---	---	---	1944
MEAN	---	---	---	3.02	4.32	4.01	1.53	0.698	0.567	0.693	---	---	---	MEAN

LOCATION - LAT 49 42 05 N DRAINAGE AREA, 215 km²
LONG 115 51 00 W NATURAL FLOW

MATHER CREEK BELOW LOST DOG CANYON - STATION NO. 08NG040

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1930	5.97 AT 09:00 PST ON MAY 31	5.66 ON MAY 31	0.453 ON APR 01	---	1930
1931	4.31 AT 04:00 PST ON MAY 16	3.96 ON MAY 16	0.249 ON AUG 20	---	1931
1932	8.07 AT 14:00 PST ON MAY 22	7.82 ON MAY 22	0.425 ON SEP 16	---	1932
1933	---	9.34 ON APR 29	0.711 ON AUG 20	---	1933
1934	10.0 AT 15:00 PST ON MAY 30	9.80 ON MAY 30	0.394 ON SEP 07	---	1934
1935	8.83 AT 08:00 PST ON MAY 23	8.44 ON MAY 23	0.459 ON OCT 10	---	1935
1936	---	---	---	---	1936
1937	8.67 AT 08:00 PST ON MAY 05	8.13 ON MAY 05	0.241E ON APR 01	---	1937
1938	18.5 AT 07:00 PST ON MAY 01 *	17.4 ON MAY 03 *	0.433 ON SEP 24	---	1938
1939	5.44 AT 19:00 PST ON JUN 16	5.24 ON JUN 17	0.394 ON SEP 24	---	1939
1940	6.34 AT 12:00 PST ON MAY 26	6.00 ON MAY 26	0.379 ON SEP 02	---	1940
1941	3.48 AT 12:00 PST ON JUN 02	3.37 ON JUN 02	0.419 ON AUG 11	---	1941
1942	15.9 AT 02:00 PST ON MAY 27	15.1 ON MAY 26	0.765E ON SEP 30	---	1942
1943	6.37 AT 09:00 PST ON MAY 28	6.03 ON MAY 28	0.396 ON SEP 12	---	1943
1944	3.85 AT 16:30 PST ON JUN 14	3.74 ON JUN 14	0.229 ON SEP 12 *	---	1944
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

MATHER CREEK NEAR THE MOUTH - STATION NO. 08NG003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	---	---	---	---	4.20	6.50	2.00	0.865	0.711	0.665	0.506	---	---	1913
1914	---	---	---	---	4.05	4.88	1.95	0.591	0.608	---	---	---	---	1914
1915	---	---	---	---	2.73	2.75	2.16	0.910	0.698	---	---	---	---	1915
1916	---	---	---	---	---	---	6.35	1.69	0.945	---	---	---	---	1916
1921	---	---	---	---	7.08	7.62	2.32	0.851	0.803	---	---	---	---	1921
1922	---	---	---	0.744	5.41	5.61	1.27	0.593	0.399	---	---	---	---	1922
1923	---	---	---	1.58	3.17	5.18	2.40	0.665	0.597	---	---	---	---	1923
MEAN	---	---	---	1.16	4.44	5.42	2.64	0.909	0.680	0.665	0.506	---	---	MEAN

LOCATION - LAT 49 41 25 N
LONG 115 44 14 W
DRAINAGE AREA, 264 km²
REGULATED

MATHER CREEK NEAR THE MOUTH - STATION NO. 08NG003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1913	---	10.5 ON JUN 02	---	---	1913
1914	---	8.83 ON JUN 05	---	---	1914
1915	---	3.51 ON JUN 27	---	---	1915
1916	---	41.9 ON JUN 20 *	---	---	1916
1921	---	10.5 ON JUN 08	---	---	1921
1922	---	10.1 ON JUN 06	---	---	1922
1923	---	7.53 ON JUN 14	---	---	1923
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

MATHERS CREEK NEAR SANDSPIT - STATION NO. 08OB003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	---	---	---	---	---	4.14	5.30	---	---	---	---	1962
MEAN	---	---	---	---	---	---	---	4.14	5.30	---	---	---	---	MEAN

LOCATION - LAT 53 01 00 N
LONG 131 46 40 W
DRAINAGE AREA, 79.3 km²
NATURAL FLOW

MATHERS CREEK NEAR SANDSPIT - STATION NO. 08OB003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1962	---	---	0.629 ON JUL 28 *	---	1962
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

MATTHEW CREEK ABOVE DIVERSIONS - STATION NO. 08NG086

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1989	0.553	0.437	0.462	2.42	9.90	13.8	3.74	2.11	1.68	0.943	1.12	0.800	3.17	1989
1990	0.652	0.405	0.451	3.48	7.03	12.9	5.21	1.50	0.744	1.06	1.03	0.698	2.93	1990
MEAN	0.603	0.421	0.457	2.95	8.47	13.4	4.48	1.81	1.21	1.00	1.08	0.749	3.05	MEAN

LOCATION - LAT 49 39 38 N
LONG 116 04 13 W
DRAINAGE AREA, 148 km²
NATURAL FLOW

ST. MARY RIVER AT WYCLIFFE - STATION NO. 08NG012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	41.6	162	271	148	29.7	21.7	20.1	25.8	---	---	1914
1915	---	---	---	66.0	113	106	75.0	38.7	27.7	---	---	---	---	1915
1916	---	---	---	44.5	110	380	217	48.7	30.7	---	---	---	---	1916
1917	---	---	---	---	152	225	157	48.0	28.9	---	---	---	---	1917
1946	---	---	---	---	---	183	90.6	27.4	21.6	14.5	10.9	10.5	---	1946
1947	8.12	7.31	12.7	44.1	188	163	66.8	23.8	16.6	45.6	25.6	14.9	51.8	1947
1948	12.1	8.36	5.71	24.6	166	262	66.6	33.5	16.4	19.4	11.9	9.57	54.7	1948
1949	7.59	6.45	5.63	35.9	173	164	42.6	18.6	13.0	11.5	12.2	11.8	37.0	1949
1950	6.63	5.98	7.08	14.1	103	266	143	37.7	15.2	28.8	23.4	19.6	56.0	1950
1951	---	---	---	43.8	194	157	152	41.6	35.0	37.2	17.9	14.2	---	1951
1952	10.4	7.65	7.65	53.1	156	153	70.8	24.1	11.9	9.60	7.64	6.03	43.3	1952
1953	9.02	8.45	7.70	16.5	111	278	116	33.5	16.4	16.4	14.7	10.3	48.2	1953
1954	10.6	12.3	8.75	13.5	173	233	218	63.7	37.1	24.7	24.9	19.0	70.3	1954
1955	11.1	8.57	8.58	12.7	72.1	252	165	40.7	20.4	33.5	29.2	14.9	57.4	1955
1956	11.3	10.0	10.7	51.6	252	241	107	29.9	14.8	18.2	12.1	9.64	64.2	1956
1957	7.69	6.56	7.78	16.2	224	183	46.5	22.2	11.8	13.2	10.2	7.69	44.2	1957
1958	7.59	6.64	7.40	18.5	218	143	40.8	16.9	17.7	20.6	13.7	10.4	43.7	1958
1959	8.97	7.53	7.99	29.9	124	291	138	46.4	79.3	51.0	31.5	---	---	1959
1960	---	9.77	15.6	46.0	98.8	215	101	30.1	21.5	16.3	13.5	8.40	---	1960
1961	7.36	8.11	9.62	22.2	152	359	65.3	23.9	18.6	26.9	13.5	10.8	60.6	1961
1962	9.53	11.5	9.44	59.5	111	166	80.5	33.4	18.4	26.5	22.9	16.1	49.6	1962
1963	12.2	13.6	12.9	29.3	144	222	68.2	31.3	20.0	15.4	15.1	11.7	51.4	1963
1964	10.2	8.72	7.88	16.3	102	260	116	42.5	26.8	30.5	17.3	11.7	54.3	1964
1965	9.81	8.63	9.60	32.0	112	207	82.3	31.8	26.5	24.0	20.3	12.6	48.1	1965
1966	10.2	8.33	9.18	39.1	171	215	100	29.1	14.7	12.7	11.2	9.61	52.7	1966
1967	8.64	8.14	7.98	12.7	222	312	133	31.7	14.8	17.6	17.2	11.3	58.8	1967
1968	9.40	9.52	14.4	16.1	218	211	118	21.1	12.1	25.5	20.6	14.2	55.9	1968
1969	10.6	8.59	9.07	55.5	213	275	97.7	24.6	18.8	21.1	15.4	10.3	63.5	1969
1970	8.67	8.03	8.07	10.1	101	180	43.6	18.3	21.3	21.0	14.2	10.4	37.1	1970
1971	9.01	15.6	12.4	32.5	208	245	146	41.9	22.0	18.7	14.0	9.58	64.8	1971
1972	10.0	8.21	14.3	21.0	169	264	148	52.1	22.5	23.3	15.7	10.7	65.8	1972
1973	9.72	8.36	8.24	17.4	113	161	68.1	22.0	16.2	18.8	18.2	12.7	39.6	1973
1974	11.4	9.66	9.07	37.5	128	353	169	54.8	22.9	12.3	10.8	8.53	69.0	1974
1975	7.30	7.25	6.00	11.3	58.2	231	125	42.1	30.6	24.3	24.9	23.0	52.5	1975
1976	12.4	9.73	9.92	33.6	188	173	158	18.1	22.4	18.9	12.4	9.80	61.7	1976
1977	8.11	7.09	6.78	23.8	76.5	[illegible]	34.5	22.7	20.3	18.3	14.2	11.0	30.6	1977
1978	9.49	7.34	10.5	24.6	188	[illegible]	117	22.2	15.2	24.6	16.4	9.57	52.5	1978
1979	6.39	7.27	8.69	13.3	104	129	48.5	17.2	13.3	9.23	7.09	8.51	31.2	1979
1980	6.01	5.50	6.18	58.9	207	125	47.3	22.7	20.4	18.0	17.9	19.0	46.3	1980
1981	19.5	12.9	14.6	32.1	165	185	166	50.1	15.8	23.3	16.4	11.0	61.4	1981
1982	8.46	9.49	9.66	17.0	111	[illegible]	109	40.1	22.6	21.9	18.6	12.4	59.0	1982
1983	11.4	10.2	12.3	36.7	181	116	109	38.2	14.1	13.7	25.9	11.6	51.8	1983
1984	13.0	9.72	10.6	28.3	61.5	223	114	32.1	19.8	15.9	12.1	9.53	45.7	1984
1985	6.37	6.05	6.92	28.7	161	148	43.3	18.6	30.3	24.0	18.7	10.3	42.1	1985
1986	9.07	8.46	17.0	46.8	183	165	69.0	33.0	26.5	33.3	18.8	11.6	69.4	1986
1987	8.07	7.64	11.3	48.3	167	113	45.5	18.3	20.9	8.22	7.78	6.64	38.7	1987
1988	8.55	5.68	6.74	41.2	137	180	55.5	22.8	17.0	33.7	24.6	12.0	45.6	1988
1989	9.14	7.64	8.99	39.6	143	201	72.0	40.0	27.8	18.3	15.4	17.5	51.8	1989
1990	12.8	9.86	10.1	61.8	116	226	129	36.4	17.4	23.2	34.2	20.1	58.2	1990
MEAN	9.55	8.69	9.58	32.5	147	215	103	34.3	23.2	21.8	17.7	12.1	51.7	MEAN

LOCATION - LAT 49 36 01 N
LONG 115 51 46 W

DRAINAGE AREA, 2 360 km²
NATURAL FLOW

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1914	---	484 ON JUN 03	---	---	1914
1915	---	176 ON MAY 10	---	---	1915
1916	---	1 070 ON JUN 19 *	---	---	1916
1917	---	442 ON JUN 17	---	---	1917
1946	377 AT 23:00 PST ON MAY 28	365 ON MAY 29	---	---	1946
1947	345 AT 23:30 PST ON MAY 09	331 ON MAY 09	5.78B ON FEB 11	1 630 000	1947
1948	496 AT 19:00 PST ON MAY 24	479 ON MAY 28	4.05B ON MAR 04 *	1 730 000	19
1949	337 AT 14:00 PST ON MAY 14	331 ON MAY 14	5.10B ON MAR 08	1 170 000	1
1950	422 AT 23:30 PST ON JUN 21	416 ON JUN 21	5.10B ON JAN 26	1 770 000	1950
1951	396 AT 01:00 PST ON JUN 16	377 ON JUN 16	---	---	1951
1952	248 AT 22:00 PST ON MAY 20	244 ON MAY 20	5.85B ON DEC 11	1 370 000	1952
1953	360 AT 06:30 PST ON JUN 14	345 ON JUN 14	6.00B ON JAN 01	1 520 000	1953
1954	408 AT 13:00 PST ON MAY 20	402 ON MAY 20	7.93 ON MAR 29	2 220 000	1954
1955	---	612E ON JUN 24	8.50B ON FEB 05	1 810 000	1955
1956	---	572E ON MAY 21	8.83 ON SEP 12	2 030 000	1956
1957	292 AT 10:00 PST ON MAY 08	289 ON MAY 08	6.37B ON FEB 20	1 390 000	1957
1958	422 AT 11:00 PST ON MAY 24	413 ON MAY 24	6.23 ON FEB 13	1 380 000	1958
1959	462 AT 01:15 PST ON JUN 22	450 ON JUN 22	7.08B ON FEB 18	---	1959
1960	422 AT 07:00 PST ON JUN 04	399 ON JUN 04	6.99B ON DEC 28	---	1960
1961	---	586E ON MAY 27	6.03B ON DEC 12	1 910 000	1961
1962	---	303E ON JUN 18	6.65B ON JAN 11	1 570 000	1962
1963	334 AT 13:00 PST ON MAY 31	326 ON MAY 26	10.2 E ON MAR 09	1 620 000	1963
1964	368 AT 18:30 PST ON JUN 08	362 ON JUN 08	6.40 ON MAR 24	1 720 000	1964
1965	343 AT 12:00 PST ON JUN 18	317 ON JUN 19	7.65A ON FEB 11	1 520 000	1965
1966	402 AT 13:55 PST ON MAY 28	394 ON MAY 28	7.08 ON MAR 05	1 660 000	1966
1967	501 AT 18:00 PST ON JUN 22	462 ON JUN 22	7.19 ON MAR 14	1 890 000	1967
1968	---	479A ON JUN 03	7.76B ON JAN 30	1 770 000	1968
1969	425 AT 00:15 PST ON JUN 06	419 ON JUN 06	7.33 ON MAR 09	2 000 000	1969
1970	360 AT 10:52 PST ON JUN 05	354 ON JUN 05	7.56 ON FEB 23	1 170 000	1970
1971	374 AT 12:15 MST ON MAY 28	365 ON MAY 28	7.28B ON DEC 11	2 040 000	1971
1972	541 AT 13:15 MST ON JUN 01	527 ON JUN 01	7.62B ON FEB 23	2 080 000	1972
1973	306 AT 12:08 MST ON MAY 18	294 ON MAY 18	7.62B ON FEB 08	1 250 000	1973
1974	612E ON JUN 18 *	578E ON JUN 18	6.68B ON DEC 31	2 180 000	1974
1975	303 AT 11:13 MST ON JUN 06	297 ON JUN 06	4.90 ON MAR 27	1 650 000	1975
1976	326 AT 16:52 MST ON MAY 11	314 ON MAY 11	8.33B ON DEC 30	1 950 000	1976
1977	292 AT 13:57 MST ON JUN 08	274 ON JUN 08	6.26 ON MAR 05	966 000	1977
1978	371 AT 13:35 MST ON JUN 06	362 ON JUN 06	5.97B ON DEC 31	1 660 000	1978
1979	268 AT 13:20 MST ON MAY 27	257 ON MAY 27	5.52B ON NOV 30	983 000	1979
1980	337 AT 02:10 MST ON APR 30	289E ON APR 30	4.28B ON JAN 09	1 460 000	1980
1981	396 AT 19:45 MST ON MAY 26	388 ON MAY 26	7.95B ON DEC 31	1 940 000	1981
1982	417 AT 23:59 MST ON JUN 15	409 ON JUN 16	6.17B ON FEB 05	1 860 000	1982
1983	406 AT 09:35 MST ON MAY 30	396 ON MAY 30	8.36B ON DEC 24	1 630 000	1983
1984	373 AT 12:59 MST ON JUN 16	364 ON JUN 16	7.41B ON DEC 04	1 450 000	1984
1985	372 AT 12:46 MST ON MAY 25	362 ON MAY 25	4.65B ON FEB 03	1 330 000	1985
1986	533 AT 11:16 MST ON MAY 29	530 ON MAY 29	6.62B ON FEB 07	1 560 000	1986
1987	374 AT 09:50 MST ON MAY 13	355 ON MAY 13	5.65B ON DEC 31	1 250 000	1987
1988	288 AT 11:56 MST ON JUN 08	277 ON JUN 08	5.06B ON FEB 02	1 380 000	1988
1989	351 AT 08:44 MST ON JUN 07	341 ON JUN 07	6.60B ON MAR 04	1 630 000	1989
1990	348 AT 14:50 MST ON JUN 11	332 ON JUN 25	9.02 ON MAR 04	1 830 000	1990
				1 630 000	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX)

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ST. MARY RIVER BELOW MORRIS CREEK - STATION NO. 08NG077

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	1.06	0.903	1.30	2.93	17.2	28.1	11.0	3.33	2.35	3.56	2.29	1.64	6.32	1973
1974	1.35	1.24	1.16	4.63	16.7	44.9	23.2	7.98	2.63	0.971	1.05	0.890	8.91	1974
1975	0.842	0.795	0.757	1.45	13.6	31.4	19.1	6.70	4.05	3.51	3.72	3.18	7.45	1975
1976	1.70	1.17	1.10	3.93	23.8	24.5	22.1	11.7	4.83	2.08	1.06	0.862	8.27	1976
1977	0.814	0.730	0.689	4.67	11.5	17.5	5.12	4.03	4.39	2.58	1.84	1.42	4.61	1977
1978	1.53	1.23	1.62	4.95	16.0	28.7	14.9	5.14	6.50	4.06	2.23	1.54	7.41	1978
1979	0.876	0.862	1.17	2.43	16.4	19.7	7.68	2.28	1.65	1.26	0.925	1.20	4.74	1979
1980	0.823	0.719	0.796	10.5	30.0	20.5	7.57	3.26	3.48	2.66	3.15	3.31	7.25	1980
1981	2.82	1.39	1.48	4.37	24.1	22.9	21.2	6.93	2.91	4.06	2.60	1.49	8.24	1981
1982	1.12	1.22	1.12	1.93	16.0	37.8	15.5	7.64	5.26	4.58	2.22	1.48	8.07	1982
1983	1.12	0.910	1.17	4.13	21.0	23.8	16.8	4.90	3.53	1.66	3.53	1.51	7.04	1983
1984	1.50	0.945	1.11	4.03	8.62	33.7	15.6	3.99	2.60	1.70	1.49	0.984	6.34	1984
1985	0.680	0.483	0.504	4.20	22.3	21.0	6.87	2.44	4.60	3.41	2.75	1.38	5.90	1985
1986	1.07	0.935	1.74	5.71	22.0	29.5	11.0	3.28	2.14	3.47	2.50	1.55	7.10	1986
1987	1.02	0.879	1.06	7.61	26.7	17.1	5.67	2.25	1.38	0.866	0.779	0.615	5.54	1987
1988	0.636	0.670	0.722	6.46	21.7	25.2	9.60	2.86	2.11	5.29	2.70	1.49	6.64	1988
1989	1.28	1.10	0.979	4.99	19.3	29.1	10.3	5.52	3.57	2.79	5.88	2.14	7.26	1989
1990	1.39	1.24	1.25	8.85	17.7	32.2	20.8	4.83	2.04	3.70	4.95	2.22	8.45	1990
MEAN	1.20	0.969	1.10	4.87	19.1	27.1	13.7	4.95	3.39	2.92	2.54	1.61	6.57	MEAN

LOCATION - LAT 49 44 30 N
LONG 116 27 00 W

DRAINAGE AREA, 206 km²
NATURAL FLOW

ST. MARY RIVER BELOW MORRIS CREEK - STATION NO. 08NG077

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1973	86.7 AT 23:18 MST ON JUN 23	60.9 ON JUN 24	0.852B ON FEB 06	199 000	1973
1974	---	71.5E ON JUN 18	0.716 ON OCT 22	281 000	1974
1975	48.4 AT 20:30 MST ON JUL 03	40.8 ON JUN 05	0.697B ON MAR 28	235 000	1975
1976	47.9 AT 21:40 MST ON JUN 30	41.1 ON JUN 30	0.742B ON DEC 30	262 000	1976
1977	47.3 AT 20:10 MST ON JUN 07	39.6 ON JUN 08	0.566B ON JAN 05	145 000	1977
1978	55.2 AT 19:34 MST ON JUN 05	47.6 ON JUN 05	0.625A ON MAR 21	234 000	1978
1979	56.4 AT 13:45 MST ON JUN 05	41.8 ON JUN 05	0.620B ON NOV 30	149 000	1979
1980	---	44.1 ON MAY 22 *	0.595B ON FEB 15	229 000	1980
1981	56.4 AT 23:25 MST ON MAY 25	49.0 ON MAY 26	0.937B ON MAR 11	260 000	1981
1982	61.5 AT 22:20 MST ON JUN 14	53.8 ON JUN 15	0.796B ON FEB 05	254 000	1982
1983	57.7 AT 21:10 MST ON MAY 29	49.9 ON MAY 29	0.763B ON FEB 05	222 000	1983
1984	62.4 AT 18:40 MST ON JUN 15	55.1 ON JUN 29	0.596B ON DEC 31	200 000	1984
1985	64.7 AT 20:46 MST ON JUN 07	45.5 ON MAY 24	0.404B ON FEB 02 *	186 000	1985
1986	91.3 AT 22:06 MST ON MAY 28 *	78.0 ON MAY 30 *	0.776B ON FEB 07	224 000	1986
1987	75.7 AT 12:36 MST ON MAY 12	56.9 ON MAY 12	0.502B ON DEC 28	175 000	1987
1988	53.7 AT 23:00 MST ON JUN 07	42.5 ON MAY 13	0.496B ON JAN 07	210 000	1988
1989	53.5 AT 20:43 MST ON JUN 06	45.8 ON JUN 06	0.900B ON APR 04	229 000	1989
1990	56.5 AT 22:27 MST ON JUN 24	46.8 ON JUN 24	1.08 B ON FEB 15	266 000	1990
				220 000	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX)

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ST. MARY RIVER NEAR MARYSVILLE - STATION NO. 08NG046

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1946	4.50	4.70	5.95	32.5	145	141	77.2	24.3	19.2	12.1	8.15	7.16	40.3	1946
1947	5.49	5.50	8.32	39.4	149	---	---	---	---	---	---	---	---	1947
1948	---	---	---	---	151	201	52.6	27.8	15.2	16.1	8.91	7.17	---	1948
1949	5.53	4.56	4.64	28.2	131	65.4	37.4	18.1	12.2	10.1	10.7	10.1	30.0	1949
1950	5.71	5.40	5.11	10.3	72.5	165	114	25.5	10.9	19.7	15.5	11.0	41.0	1950
1951	9.11	11.3	8.96	32.6	134	131	119	35.5	27.9	30.1	15.0	10.6	47.3	1951
1952	8.26	6.65	5.68	37.0	107	115	61.0	22.1	12.3	7.21	5.08	4.01	32.7	1952
1953	5.63	5.21	4.86	13.2	82.8	161	66.1	30.1	14.1	14.6	12.0	8.38	37.3	1953
1954	7.24	6.82	6.04	10.9	126	167	172	55.8	33.3	20.1	21.5	15.5	53.8	1954
1955	7.11	6.57	5.64	7.78	81.6	166	109	34.5	17.7	29.0	23.4	12.3	41.8	1955
1956	9.23	6.64	6.38	18.3	172	178	66.5	28.2	12.9	15.9	9.67	8.39	47.8	1956
1957	5.68	5.20	5.36	11.4	162	120	59.8	20.4	9.58	11.2	8.57	6.31	34.0	1957
1958	5.64	5.53	5.65	16.7	154	112	34.7	13.3	14.2	17.8	10.2	7.63	34.1	1958
1959	6.75	5.67	5.72	24.1	92.1	215	115	39.7	65.8	40.7	25.3	14.2	54.3	1959
1960	9.21	7.37	11.1	33.7	70.4	164	88.4	26.0	17.2	12.9	10.1	6.80	38.2	1960
1961	6.43	6.54	6.52	17.5	144	151	53.9	19.9	14.9	21.5	10.5	7.61	46.7	1961
1962	6.48	7.81	6.37	19.1	83.5	156	60.2	30.4	14.5	21.3	18.5	12.0	38.8	1962
1963	8.56	10.6	9.69	25.8	110	167	58.9	27.6	18.8	12.7	12.7	8.06	41.1	1963
1964	6.90	6.75	6.22	11.5	77.4	201	99.6	16.0	25.1	27.7	14.9	9.60	45.5	1964
1965	7.70	6.86	6.99	27.5	86.2	188	66.6	26.4	24.2	20.3	16.9	9.46	38.2	1965
1966	7.99	6.54	7.03	29.3	131	165	65.1	36.5	11.1	9.95	8.67	7.02	40.6	1966
1967	6.38	5.68	5.70	9.13	55.3	186	112	26.6	12.1	14.8	14.6	9.03	47.3	1967
1968	7.52	7.76	11.3	13.3	101	160	57.2	24.9	25.8	10.6	15.2	8.65	44.5	1968
1969	7.69	6.65	6.60	39.4	148	208	74.0	19.8	13.0	16.9	12.5	8.15	46.8	1969
1970	6.58	6.01	5.97	8.11	60.7	153	37.6	14.6	18.1	15.1	9.61	8.27	30.3	1970
1971	7.37	12.1	7.59	23.7	160	169	113	37.1	18.5	14.2	10.2	7.41	51.1	1971
1972	6.91	6.14	10.7	16.3	108	242	113	43.9	18.4	19.2	10.5	7.09	52.7	1972
1973	6.67	5.62	6.05	11.7	60.7	134	58.3	20.9	13.8	15.9	14.7	10.3	32.6	1973
1974	8.45	7.79	7.33	27.8	93.0	275	145	44.7	19.2	9.57	8.30	6.96	54.5	1974
1975	6.41	6.03	5.61	9.29	72.2	161	103	33.5	23.2	17.7	18.6	17.0	41.3	1975
1976	11.0	8.37	7.40	24.3	140	134	115	63.5	26.2	13.7	8.74	7.18	48.5	1976
1977	6.55	5.65	5.68	19.8	49.7	99.3	50.3	20.2	15.8	14.5	11.7	8.10	25.7	1977
1978	6.96	6.13	7.66	25.3	84.9	170	97.3	26.4	19.4	20.3	13.3	7.80	41.4	1978
1979	5.10	5.64	6.76	10.7	61.4	107	41.7	15.4	12.1	7.87	6.09	6.99	25.7	1979
1980	4.78	4.62	5.11	48.7	160	100	39.8	19.1	17.6	15.7	14.6	14.9	37.1	1980
1981	15.3	10.1	11.1	23.9	137	134	118	42.0	17.6	20.1	13.9	9.69	48.1	1981
1982	7.62	7.90	7.27	12.3	93.2	221	88.5	41.2	26.1	25.9	15.5	10.4	45.7	1982
1983	8.35	6.51	8.43	27.3	108	115	69.3	30.9	19.7	11.1	19.9	9.15	39.7	1983
1984	10.3	7.67	7.98	21.7	43.0	169	94.7	26.4	15.5	11.7	8.81	7.39	35.3	1984
1985	5.40	4.54	4.83	22.5	124	115	35.0	15.4	23.0	17.1	14.4	8.25	32.5	1985
1986	6.61	6.33	12.1	33.7	115	161	58.9	20.1	13.7	18.2	14.9	9.28	39.2	1986
1987	6.50	6.06	8.47	35.9	144	97.4	38.3	15.9	8.22	6.50	5.77	5.57	31.7	1987
1988	4.51	4.33	5.10	33.4	109	133	49.7	18.6	13.1	27.6	18.3	10.4	35.6	1988
1989	8.45	7.02	6.37	29.9	102	155	59.6	34.4	23.5	14.8	28.9	14.3	40.4	1989
1990	9.65	7.67	7.38	45.7	85.3	173	104	30.0	13.9	17.7	25.0	14.4	44.5	1990
MEAN	7.29	6.72	7.09	24.1	110	164	83.0	28.7	19.1	17.2	13.6	9.40	40.8	MEAN

LOCATION - LAT 49 36 29 N
LONG 116 10 07 W

DRAINAGE AREA, 1 480 km²
NATURAL FLOW

ST. MARY RIVER NEAR MARYSVILLE - STATION NO. 08NG046

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1946	---	274 ON MAY 29	3.37 ON JAN 20 *	1 270 000	1946
1947	---	---	4.76 ON MAR 06	---	1947
1948	---	394 ON JUN 11	---	---	1948
1949	---	257 ON MAY 14	4.02 ON FEB 11	947 000	1949
1950	---	340 ON JUN 21	4.39E ON JAN 26	1 290 000	19
1951	---	289 ON JUN 16	8.07 ON JAN 06	1 490 000	19
1952	---	182 ON JUN 06	3.96 ON NOV 25	1 030 000	19
1953	---	257 ON JUN 14	3.56 ON JAN 01	1 180 000	1953
1954	---	326 ON JUL 02	4.64 ON MAR 29	1 700 000	1954
1955	---	362 ON JUN 14	4.76 ON MAR 24	1 320 000	1955
1956	---	391 ON MAY 21	5.44 ON MAR 04	1 510 000	1956
1957	---	215 ON JUN 03	4.70 ON FEB 19	1 070 000	1957
1958	---	303 ON MAY 24	4.76 ON MAR 16	1 080 000	1958
1959	---	326 ON JUN 21	5.27 ON FEB 18	1 710 000	1959
1960	---	292 ON JUN 04	5.95 ON FEB 28	1 210 000	1960
1961	---	413 ON MAY 27	5.38 ON MAR 05	1 470 000	1961
1962	---	254 ON JUN 18	5.69 ON JAN 10	1 220 000	1962
1963	---	255 ON MAY 25	6.77 ON JAN 11	1 300 000	1963
1964	---	268 ON JUN 09	5.10 ON MAR 25	1 380 000	1964
1965	---	259 ON JUN 18	5.92 ON MAR 02	1 200 000	1965
1966	---	300 ON MAY 28	5.52 ON MAR 04	1 280 000	1966
1967	---	374 ON JUN 22	5.10 ON MAR 13	1 490 000	1967
1968	---	416 ON JUN 03	6.37 ON JAN 28	1 410 000	1968
1969	---	326 ON JUN 06	5.41 ON MAR 11	1 480 000	1969
1970	---	297 ON JUN 05	5.44 ON FEB 23	956 000	1970
1971	---	286 ON JUN 23	5.64 ON DEC 11	1 610 000	1971
1972	---	419 ON JUN 01	5.92 ON DEC 09	1 670 000	1972
1973	---	234 ON MAY 18	5.32 ON FEB 07	1 030 000	1973
1974	501 AT 13:00 MST ON JUN 17 *	481 ON JUN 17 *	5.24A ON JAN 03	1 720 000	1974
1975	243 AT 12:30 MST ON JUN 06	237 ON JUN 06	5.27 ON MAR 28	1 300 000	1975
1976	267 AT 10:00 MST ON JUL 01	255 ON JUL 01	6.17 ON DEC 30	1 530 000	1976
1977	261 AT 12:50 MST ON JUN 08	246 ON JUN 08	5.49 ON MAR 05	811 000	1977
1978	309 AT 10:50 MST ON JUN 06	294 ON JUN 06	4.90E ON DEC 31	1 310 000	1978
1979	221 AT 04:50 MST ON JUN 06	205 ON MAY 27	4.70E ON JAN 05	810 000	1979
1980	275 AT 21:45 MST ON APR 29	242 ON APR 29	3.45E ON JAN 09	1 170 000	1980
1981	328 AT 14:20 MST ON MAY 25	309 ON MAY 26	6.95E ON FEB 10	1 520 000	1981
1982	324 AT 11:10 MST ON JUN 16	314 ON JUN 16	5.33 ON FEB 05	1 440 000	1982
1983	308 AT 10:15 MST ON MAY 30	298 ON MAY 30	5.69 ON FEB 05	1 250 000	1983
1984	304 AT 11:54 MST ON JUN 16	290 ON JUN 16	6.32 ON DEC 05	1 120 000	1984
1985	301 AT 11:50 MST ON MAY 25	286 ON MAY 25	3.80E ON FEB 03	1 020 000	1985
1986	445 AT 11:17 MST ON MAY 29	421 ON MAY 29	5.20 ON FEB 07	1 240 000	1986
1987	294 AT 06:58 MST ON MAY 13	273 ON MAY 13	4.44 ON DEC 01	1 000 000	1987
1988	231 AT 11:20 MST ON JUN 08	218 ON JUN 08	4.00 ON FEB 02	1 130 000	1988
1989	265 AT 11:18 MST ON JUN 07	251 ON JUN 07	5.97 ON MAR 20	1 280 000	1989
1990	274 AT 10:00 MST ON JUN 25	260 ON JUN 25	6.60 ON FEB 15	1 400 000	1990
A - MANUAL GAUGE (SEE REFERENCE INDEX)	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 290 000	MEAN

STAFFORD RIVER NEAR ROY - STATION NO. 08GF001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1922	---	---	---	---	---	---	---	---	81.6	33.2	36.3	33.3	---	1922
1923	22.8	23.7	19.4	36.6	48.1	58.0	40.4	30.9	24.7	---	---	---	---	1923
1924	---	---	---	---	---	---	---	---	---	53.1	22.0	38.0	---	1924
1925	---	---	---	---	---	---	51.6	28.0	13.3	7.83	37.8	31.7	---	1925
1926	21.0	24.0	23.4	39.7	45.9	49.8	46.3	32.1	15.7	50.7	22.4	22.6	32.7	1926
1927	16.8	10.1	10.5	26.0	44.6	82.1	58.3	29.0	26.4	19.9	16.4	12.4	29.4	1927
1928	32.7	17.2	28.5	15.6	52.0	56.0	37.9	25.1	21.1	44.5	34.3	18.2	31.8	1928
1929	---	---	---	16.8	45.6	55.0	51.2	32.2	---	---	---	15.7	---	1929
1930	6.05	24.1	18.5	44.9	41.6	63.0	44.9	25.5	23.7	---	---	18.8	---	1930
1931	---	---	26.5	32.7	---	---	---	20.9	35.6	39.2	---	---	---	1931
MEAN	19.9	19.8	21.1	30.3	46.3	60.7	47.2	28.0	30.2	35.5	28.2	23.3	31.3	MEAN

LOCATION - LAT 50 44 06 N DRAINAGE AREA, 326 km^2
LONG 125 28 42 W NATURAL FLOW

STAFFORD RIVER NEAR ROY - STATION NO. 08GF001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1922	---	---	---	---	1922
1923	---	---	---	---	1923
1924	---	---	---	---	1924
1925	---	---	---	---	1925
1926	177 AT 07:00 PST ON OCT 16 *	171 ON OCT 16 *	7.73E ON SEP 25	1 030 000	1926
1927	110 AT 03:00 PST ON JUN 09	105 ON JUN 07	6.20 ON DEC 30	928 000	1927
1928	161 AT 03:30 PST ON JAN 09	151 ON JAN 09	6.12 ON JAN 01 *	1 010 000	1928
1929	---	---	---	---	1929
1930	---	---	---	---	1930
1931	---	---	---	---	1931
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		989 000	MEAN

Ministry of Environment - Water Management Branch - Groundwater Section
Groundwater Database System
Data Summary - with Legal Descriptions and Old Coordinates

CGS Map Area	Well No.	Loc No.	Plan No.	Blk No.	TP	SC	RG	D.L.	Z	X	Y	Old Well No.	L.D.	Owner's Name	Site Address	Date Constructed (dmy)	Well Depth (ft.)	Well Diam. (in.)	Drill Contr No.	Const. Method	Well Yield	Yld. Unt.	Depth to Water (ft.)	Depth to Bedrk (ft.)	Aquif Litho	Screen Interval (ft.)	G.W. Rpt	Chem Lab	Chem Fld	Chem Site No.
123.052.3.3.1	001							2044	07	26	20	001	27	CARLISLE BROS		01-01-60	153.0	7.0	021	DRI	25.0	GPM	164	UNK	UNC					
123.052.3.3.1	002								07	26	21	001	27	DEPT OF TRANSPORT		01-01-66	24.0	0.0	UNK	DRI			15	UNK	UNC					
123.052.3.3.3	001							2045	07	26	29	001	27	FRED CLARK			365.0	6.0	122	DRI	5.0	USGM	345	UNK	UNC					
123.052.3.3.3	002								07	26	28	002	27	ISACE BIRDSTONE	SAINT MARIES INDIAN		350.0	6.0	104	DRI	4.0	GPM	80	165	BED					
123.052.3.3.3	003								07	26	28	003	27	JUSTINE MERIYEAR	SAINT MARIES INDIAN		210.0	0.0	104	DRI	4.0	GPM	80	UNK	UNC					
123.052.3.3.3	004								07	26	28	004	27	PETER WILLIAM	SAINT MARIES INDIAN	04-10-84	173.0	6.0	104	DRI	6.0	GPM	80	UNK	UNC					
123.052.3.3.3	005	1	14570					2044	07	26	28	005	27	JAMES STIMPSON		01-01-81	170.0	6.0	UNK	DRI	7.0	USGM	UNK	UNK	UNC					
123.052.3.3.4	001								07	26	22	004	27		ST MARYS INDIAN RESE	01-01-81	0.0	0.0	UNK				UNK	UNK	UNC					
123.052.3.3.4	002								07	26	22	005	27		ST MARYS INDIAN RESE	23-09-81	0.0	0.0	184				UNK	UNK	UNC					
123.052.3.3.4	003								07	26	22	006	27		ST MARYS INDIAN RESE	01-01-74	0.0	0.0	UNK	DRI			UNK	UNK	UNC			Y		
123.052.3.3.4	004								00	00	00	000	27	ST MARYS RESERVE		07-07-71	41.0	0.0	101		2.0	GPM	7	UNK	UNC					
123.052.3.3.4	005								00	00	00	000	27	HOWARD MICHEL	MISSION RD.	30-09-87	298.0	6.0	104	DRI			UNK	178	BED					
123.052.3.4.3	001	16							07	26	26	001	27	C CLEMENT	ST EUGENE MISSION	01-01-76	0.0	0.0	122	DRI			UNK	UNK	UNC					
123.052.3.4.3	002								07	26	27	001	27	PETER BIRDSTONE	ST MARYS INDIAN RESE	01-01-79	0.0	0.0	UNK				UNK	UNK	UNC			Y		
123.052.3.4.3	003								07	26	27	002	27	A ALEXANDER	ST MARYS INDIAN RESE	23-05-81	0.0	0.0	184				UNK	UNK	UNC			Y		
123.052.3.4.3	004								07	26	26	002	27	CARL VAN DOORSELEARE	ST MARYS INDIAN RESE	24-09-81	0.0	0.0	184				UNK	UNK	UNC			Y		
123.052.3.4.3	005								07	26	26	003	27	HOWARD MICHEL	ST MARYS INDIAN RESE	01-01-81	18.0	0.0	UNK				UNK	UNK	UNC					
123.052.3.4.3	006								07	26	26	004	27	V & K CLEMENT	ST MARYS INDIAN RESE	01-01-81	0.0	0.0	UNK				UNK	UNK	UNC			Y		
123.052.3.4.3	007	16B	8L55						07	26	26	005	27	VIC CLEMENTS	SAINT MARIES INDIAN	09-10-84	95.0	6.0	104	DRI	40.0	GPM	10	UNK	UNC					
123.052.3.4.3	008								00	00	00	000	27	DEPT OF INDIAN AFFRS	ST MARYS INDIAN RES	24-09-81	58.0	6.0	079	DRI	15.0	GPM	15	UNK	UNC					
123.052.3.4.3	009								00	00	00	000	27	DEPT OF INDIAN AFFRS	ST MARYS INDIAN RES	23-09-81	38.0	6.0	079	DRI			12	UNK	UNC					
123.052.3.4.3	010								00	00	00	000	27	DEPT OF INDIAN AFFRS	ST MARYS INDIAN RES	23-09-81	58.0	6.0	079		7.0	GPM	12	UNK	UNC					
123.052.3.4.3	011								00	00	00	000	27	ST MARYS RESERVE		07-11-67	115.0	6.0	108		8.0	GPM	4	90	BED					
123.052.3.4.3	012	16							00	00	00	000	27	C CLEMENT		28-04-76	95.0	6.0	122	DRI	15.0	GPM	8	UNK	UNC					
123.062.1.1.1	001							11563	07	26	22	001	27	R SAVARIE		27-01-70	315.0	4.5	185	DRI	4.0	GPM	180	310	UNC					
123.062.1.1.1	002							6436	07	26	28	001	27	DEPT OF TRANSPORT		01-01-66	165.0	0.0	UNK	DRI			UNK	UNK	UNC					
123.062.1.1.1	003	5	8746					7326	07	26	32	018	27	B AUDISON	CLEARVIEW ACRES	19-09-79	170.0	6.0	122	DRI	6.0	GPM	45	35	BED					
123.062.1.1.3	001	4	8746					7326	07	26	32	001	27	ED STANEL	AIRPORT ROAD	22-08-74	160.0	6.0	080		10.0	GPM	45	UNK	BED					
123.062.1.1.3	002								07	26	33	001	27	DEPT OF TRANSPORT	AIRPORT	10-12-67	215.0	0.0	135	DRI			UNK	UNK	UNC					
123.062.1.1.3	003								07	26	33	002	27	DEPT OF TRANSPORT	AIRPORT	01-01-66	129.0	0.0	UNK	DRI			UNK	UNK	UNC					
123.062.1.1.3	004	1	8746					7326	07	26	32	014	27	W TANNER	SOMMERFELDT	01-07-79	220.0	0.0	079	DRI	9.0	GPM	UNK	12	BED					
123.062.1.1.3	005								00	00	00	000	27	DEPT OF TRANSPORT	AIRPORT RD.	11-11-87	210.0	8.0	104	DRI					UNC					
123.062.1.1.3	006								00	00	00	000	27	DEPT OF TRANSPORT	AIRPORT RD.	11-11-87	375.0	8.0	104	DRI	200.0	GPM	UNK		UNC					
123.062.1.1.3	007								00	00	00	000	27	DEPT OF TRANSPORT	AIRPORT RD.	15-02-60	355.0	8.0	UNK	DRI	24.0	GPM	300		UNC	329-355	Y			
123.062.1.2.2	001								07	26	36	001	27	M MORIGEAU	ST MARYS INDIAN RESE	24-09-81	0.0	0.0	184				UNK	UNK	UNC			Y		
123.062.1.2.2	002								07	26	36	002	27	MATTHEW WILLIAMS	ST MARYS INDIAN RESE	01-01-60	0.0	0.0	UNK				UNK	UNK	UNC			Y		
123.062.1.2.2	003								07	26	36	003	27	PAUL ANTHONY	ST MARYS INDIAN RESE	01-01-81	0.0	0.0	UNK				UNK	UNK	UNC			Y		
123.062.1.2.2	004								07	26	36	004	27	MARK SEBASTIAN	ST MARYS INDIAN RESE	01-01-81	0.0	0.0	UNK				UNK	UNK	UNC			Y		
123.062.1.2.4	001								07	26	36	005	27	ANNIE CAPILO	ST MARYS INDIAN RESE	01-01-81	0.0	0.0	UNK				UNK	UNK	UNC			Y		
123.062.1.2.4	002								00	00	00	000	27	DEPT OF INDIAN AFFAI	ST MARYS INDIAN RESE	24-09-81	40.0	6.0	079	DRI	20.0	GPM	15	UNK	UNC					
123.062.1.4.3	001								00	00	00	000	27	CRANBROOK AIRPORT	AIRPORT RD.	11-11-87	210.0	0.0	104	DRI					UNC					
123.062.2.1.3	001	25	8L46						07	27	31	001	27	DAVID WILLIAMS	SAINT MARIES INDIAN	06-10-84	35.0	0.0	104	DRI	10.0	GPM	15	UNK	UNC					
123.062.2.1.3	002								00	00	00	000	27	FISHER	ST MARYS INDIAN RESE	06-02-70	33.0	0.0	108		15.0	GPM	18	UNK	UNC					
123.062.2.3.1	001								00	00	00	000	27	M STANLEY	ST MARYS INDIAN RESE	01-01-81	0.0	0.0	UNK				UNK	UNK	UNC					
123.062.2.3.1	002								00	00	00	000	27	MARY PAUL	ST MARYS INDIAN RESE	24-09-81	0.0	0.0	184				UNK	UNK	UNC					
123.062.2.3.1	003								00	00	00	000	27	DEPT OF INDIAN AFFAI	ST MARYS INDIAN RESE	25-09-81	38.0	6.0	079	DRI			15	UNK	UNC					
123.062.2.3.2	001								00	00	00	000	27	DEPT OF INDIAN AFFRS	ST MARYS INDIAN RESE	25-07-80	38.0	6.0	079	DRI	20.0	GPM	12	UNK	UNC					
123.062.2.3.2	002								00	00	00	000	27	DEPT OF INDIAN AFFRS	ST MARYS INDIAN RESE	25-09-81	38.0	6.0	079	DRI	20.0	USGM	38	UNK	UNC					

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Ministry of Environment - Water Management Branch - Groundwater Section
Groundwater Database System
Data Summary - with Legal Descriptions and Old Coordinates

BCGS Map Area	Well No.	Lot No.	Plan No.	Blk No.	TP	SC	RG	D.L.	Z	X	Y	Old Well No.	L.D.	Owner's Name	Site Address	Date Constructed (dmy)	Well Depth (ft.)	Well Diam. (in.)	Drill Contr No.	Const. Method	Well Yield	Yld. Unt.	Depth to Water (ft.)	Depth to Bedrk (ft.)	Aquif Litho	Screen Interval (ft.)	G.W. Rpt	Chem Lab	Chem Fld	Chem Site No.
0123.062.2.3.2	003								00	00	00	000	27	ISAAC BIRDSTONE	ST MARYS INDIAN RESE	01-01-73	0.0	0.0	UNK				UNK	UNK	UNC			Y		
0123.062.2.3.2	004								00	00	00	000	27	MCCOY	ST MARYS INDIAN RESE	01-01-81	0.0	0.0	UNK				UNK	UNK	UNC			Y		
0123.062.2.3.3	001								00	00	00	000	27	A BIRDSTONE	ST MARYS INDIAN RESE	01-01-71	0.0	0.0	UNK				UNK	UNK	UNC			Y		
0123.062.2.3.4	001								00	00	00	000	27	JOHN CASMERE	ST MARYS INDIAN RESE	24-09-81	0.0	0.0	184				UNK	UNK	UNC			Y		
0123.062.2.3.4	002								00	00	00	000	27	TONY JACOBS	ST MARYS INDIAN RESE	25-09-81	0.0	0.0	184				UNK	UNK	UNC			Y		
0123.062.2.3.4	003	52	BLAS						00	00	00	000	27	JULIE BIRDSTONE	ST MARYS INDIAN RESE	05-10-84	35.0	6.0	104	DRI	10.0	GPM	15	UNK	UNC					
0123.062.3.1.3	001								08	26	21	001	27	GEORGE ADRIANE	ST MARYS INDIAN RESE	19-03-82	25.0	0.0	009	DRI	8.0	GPM	11	UNK	UNC					
0123.062.4.1.4	001	A	5830					129	00	00	00	000	27	MELLING	PINE GROVE POULTRY F	25-10-79	158.0	6.0	122	DRI	15.0	GPM	125	UNK	UNC					
0123.062.4.3.2	001							3040	00	00	00	000	27	TOP OF THE WORLD RAN		01-01-83	400.0	6.0	183	DRI			UNK	UNK	UNC					
0123.062.4.3.2	002	A	5830					129	00	00	00	000	27	D EDDLESTON	PINE GROVE FARMS	25-07-78	122.0	6.0	080		5.0	GPM	115	UNK	UNC					
0123.062.4.3.2	003							3040	00	00	00	000	27	ALBERT HOLMES	OLD WASA RD SIX MILE	01-05-71	270.0	6.0	080		7.0	GPM	70	UNK	UNC					

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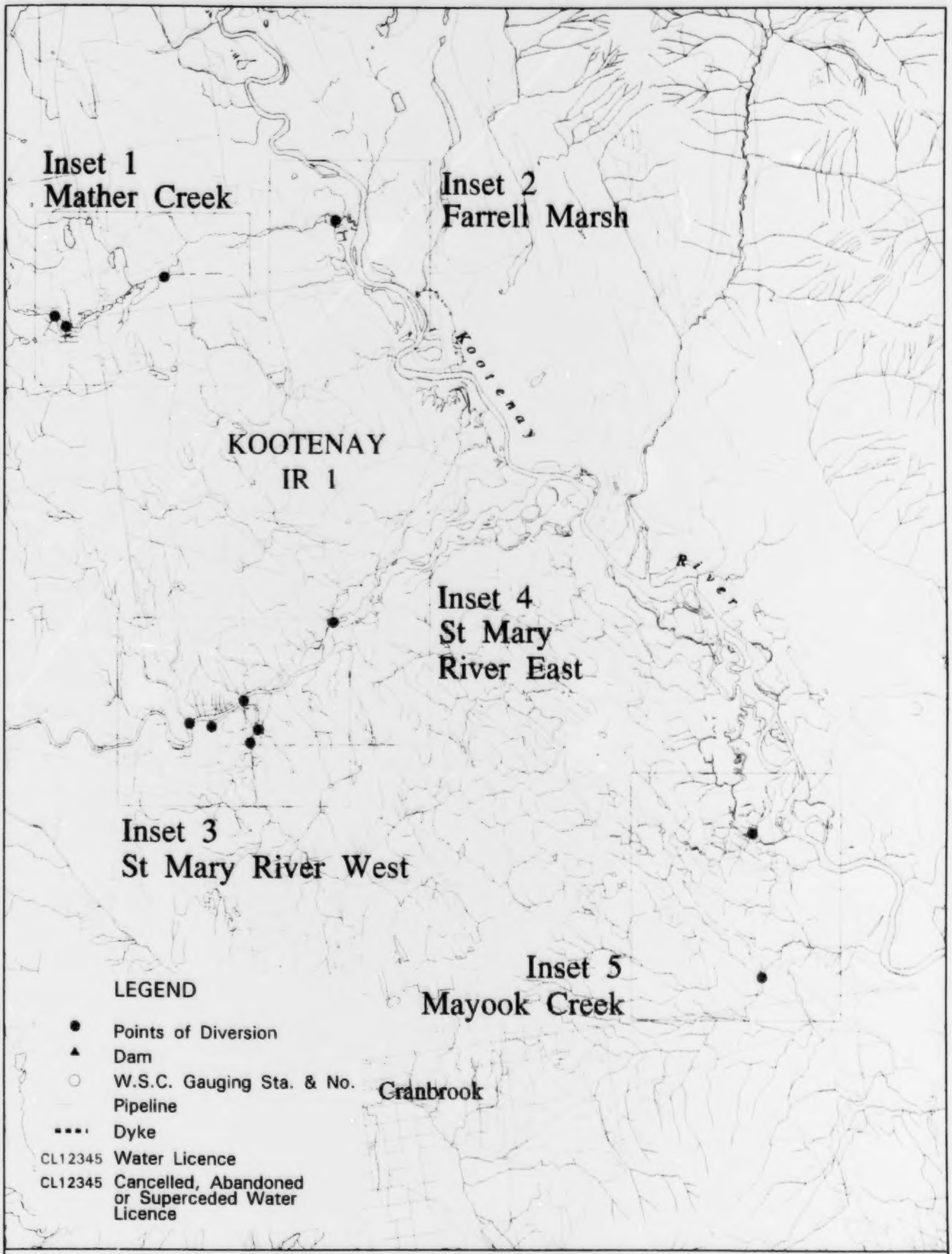

Inset 1
Mather Creek
Inset 2
Farrell Marsh
Kootenay
River
KOOTENAY
IR 1
Inset 4
St Mary
River East
Inset 3
St Mary River West
Inset 5
Mayook Creek
Cranbrook
LEGEND
● Points of Diversion
▲ Dam
○ W.S.C. Gauging Sta. & No.
Pipeline
Dyke
CL12345 Water Licence
CL12345 Cancelled, Abandoned or Superceded Water Licence

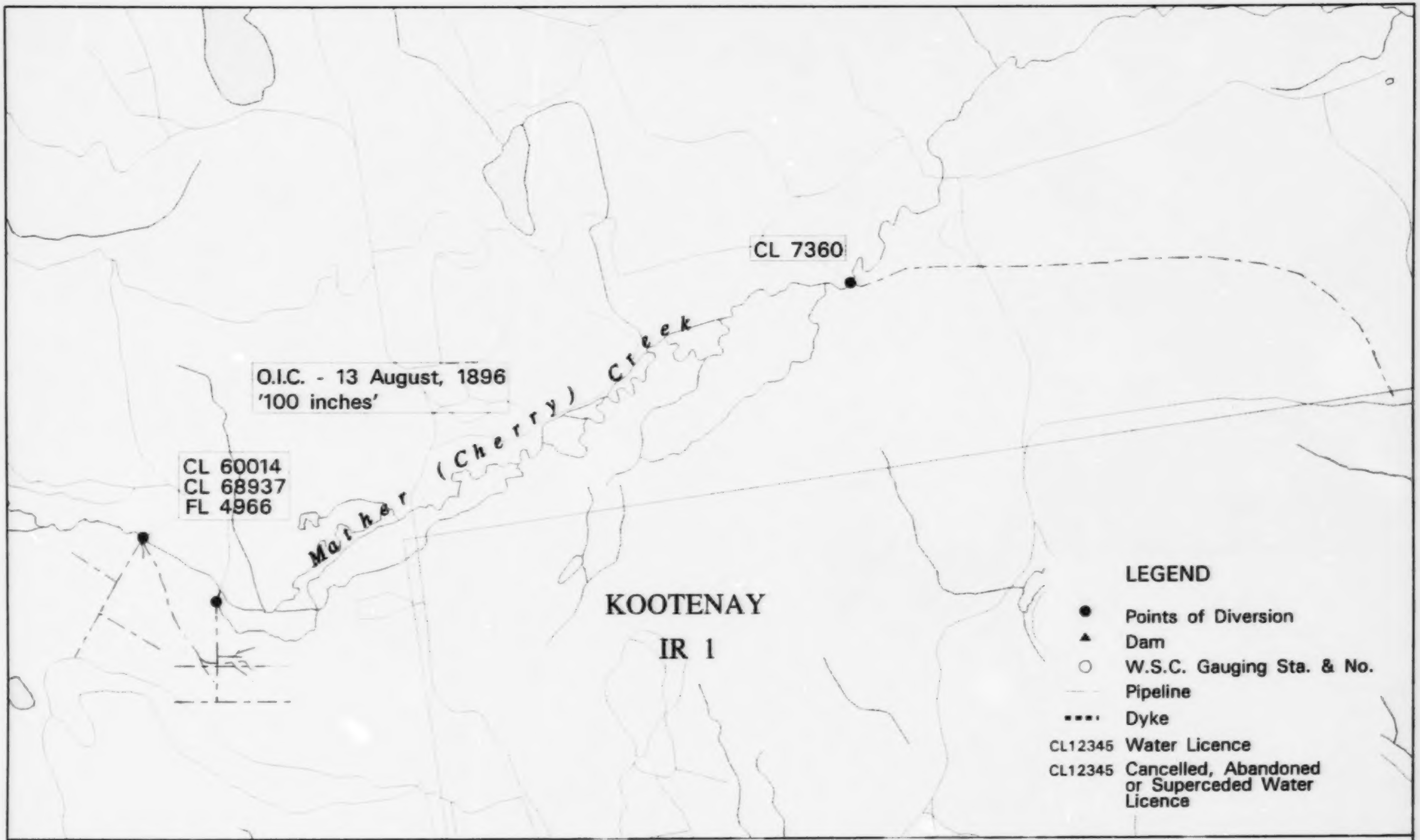
St Mary

Scale 1:125,000

Ministry of Environment, Lands & Parks

Date: October 22, 1997

Environment & Lands Division


CL 7360
O.I.C. - 13 August, 1896
'100 inches'
CL 60014
CL 68937
FL 4966
Mather (Cherry) Creek
KOOTENAY
IR 1
LEGEND
● Points of Diversion
▲ Dam
○ W.S.C. Gauging Sta. & No.
Pipeline
Dyke
CL12345 Water Licence
CL12345 Cancelled, Abandoned or Superceded Water Licence

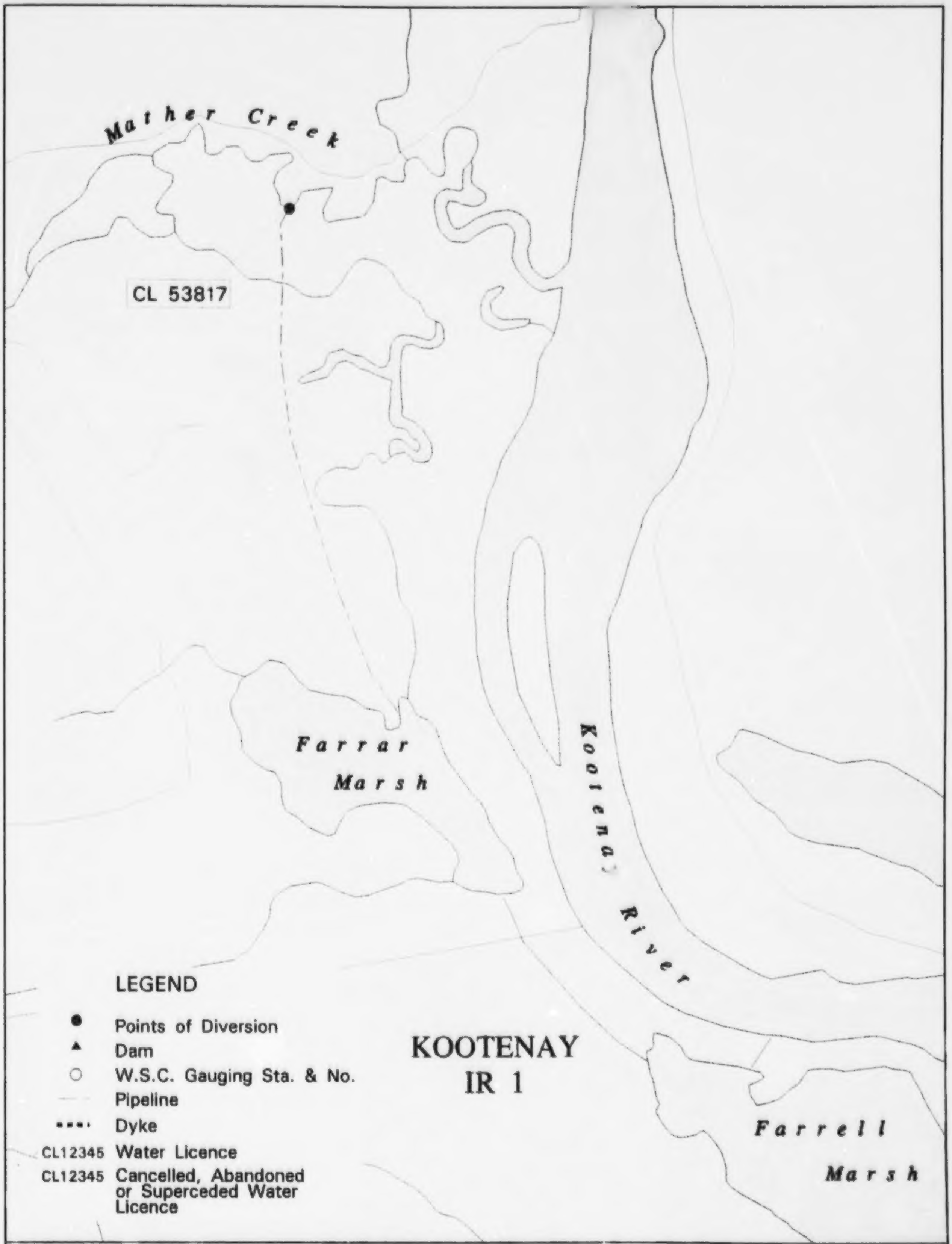
Mather Creek

Scale 1:20,000

Ministry of Environment, Lands & Parks

Date: October 22, 1997

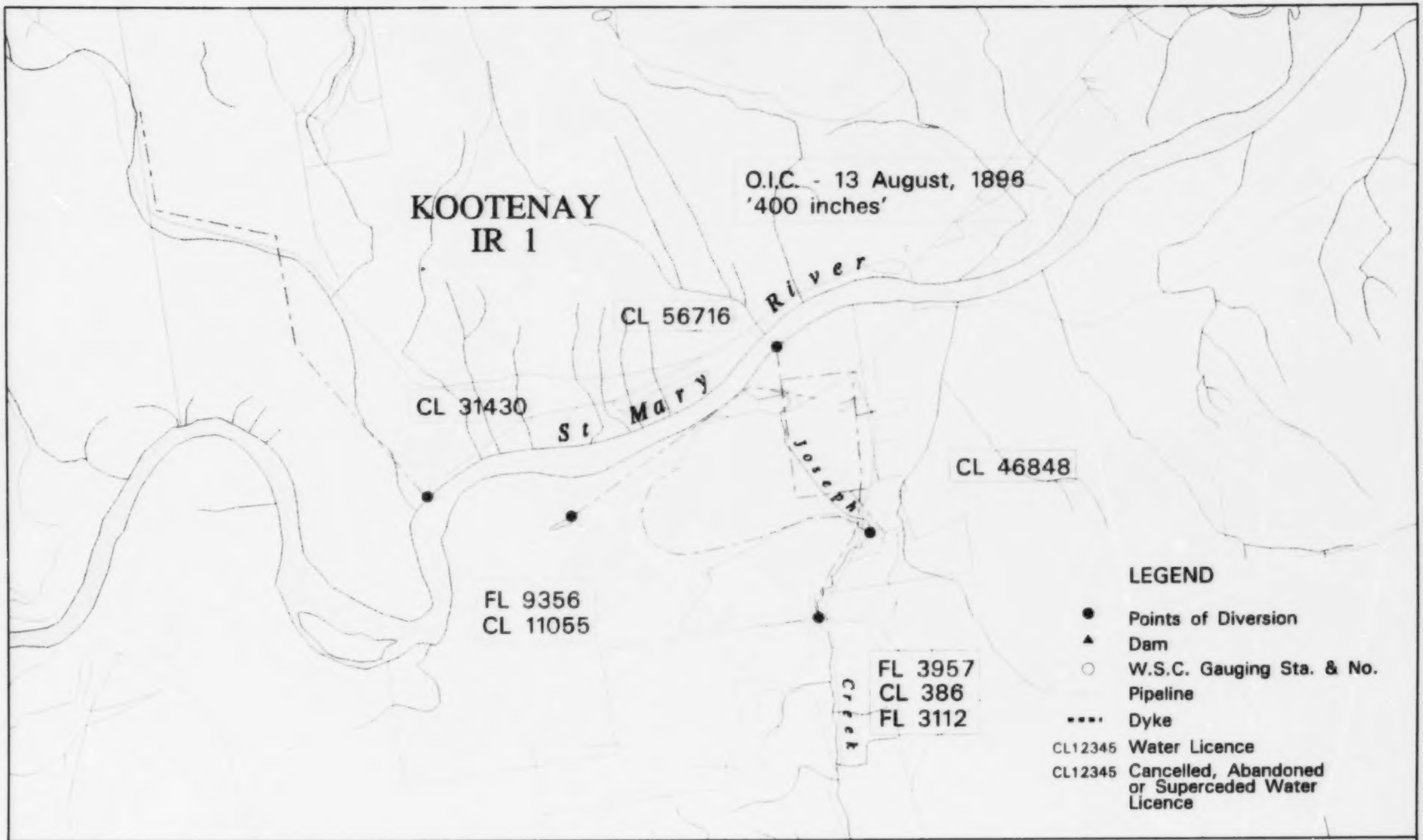
Environment & Lands Division


Mather Creek
CL 53817
Farrar Marsh
Kootenay River
LEGEND
● Points of Diversion
▲ Dam
○ W.S.C. Gauging Sta. & No.
Pipeline
Dyke
CL12345 Water Licence
CL12345 Cancelled, Abandoned or Superceded Water Licence
KOOTENAY IR 1
Farrell Marsh

Farrell Marsh

Scale 1:10,000

Ministry of Environment, Lands & Parks   Date: October 22, 1997   Environment & Lands Division


KOOTENAY
IR 1
O.I.C. - 13 August, 1896
'400 inches'
CL 56716
CL 31430
St Mary River
Joseph Creek
CL 46848
FL 9356
CL 11055
FL 3957
CL 386
FL 3112
LEGEND
● Points of Diversion
▲ Dam
○ W.S.C. Gauging Sta. & No.
Pipeline
Dyke
CL12345 Water Licence
CL12345 Cancelled, Abandoned or Superceded Water Licence

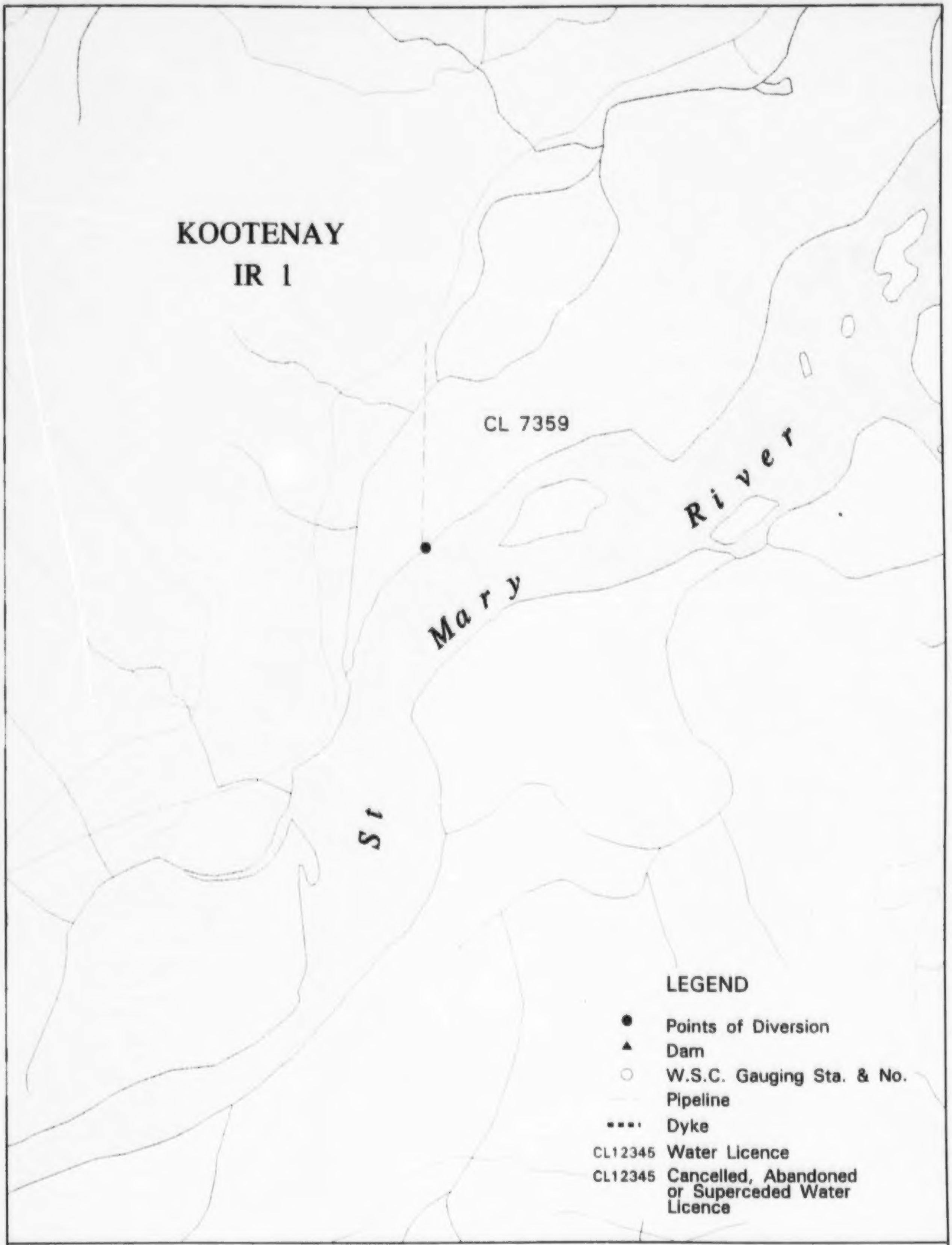
St Mary River West

Scale 1:20,000

Ministry of Environment, Lands & Parks

Date: October 22, 1997

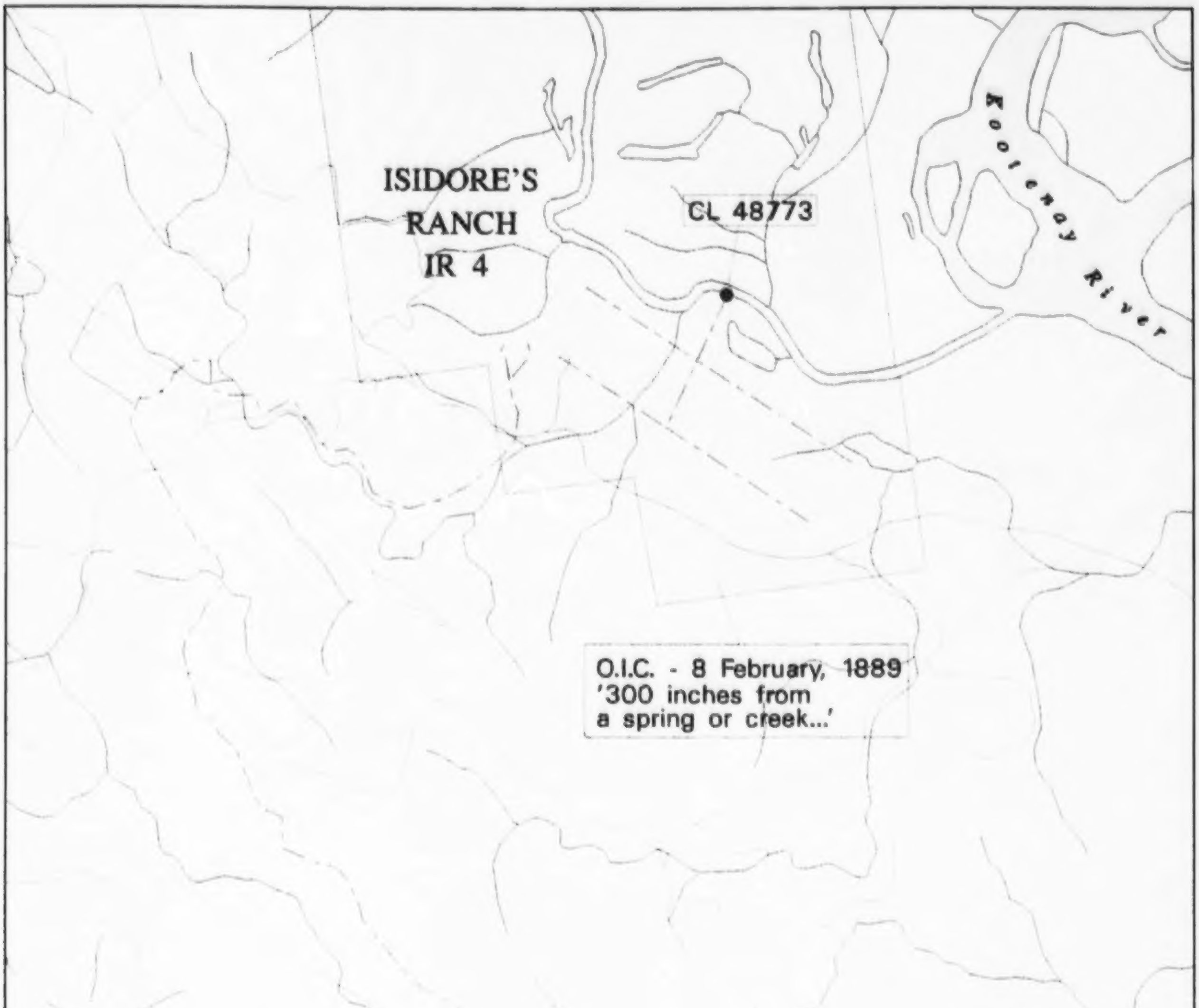
Environment & Lands Division


KOOTENAY
IR 1
CL 7359
St Mary River
LEGEND
● Points of Diversion
▲ Dam
○ W.S.C. Gauging Sta. & No.
Pipeline
Dyke
CL12345 Water Licence
CL12345 Cancelled, Abandoned or Superceded Water Licence

St Mary River East

Scale 1:10,000

Ministry of Environment, Lands & Parks Date: October 22, 1997 Environment & Lands Division


ISIDORE'S RANCH IR 4
CL 48773
Kootenay River
O.I.C. - 8 February, 1889 '300 inches from a spring or creek...'
Mayook Creek
CL 7358
LEGEND
● Points of Diversion
▲ Dam
○ W.S.C. Gauging Sta. & No.
Pipeline
Dyke
CL12345 Water Licence
CL12345 Cancelled, Abandoned or Superceded Water Licence

Mayook Creek

Scale 1:20,000

Ministry of Environment, Lands & Parks Date: October 22, 1997 Environment & Lands Division